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**IDENTIFICATION OF CHEMICALS OF
INTEREST TO THE DEPARTMENT OF
DEFENSE AND THE U.S. AIR FORCE AMONG
THE U.S. ENVIRONMENTAL PROTECTION
AGENCY'S INTEGRATED RISK
INFORMATION SYSTEM CHEMICALS THAT
ARE DUE FOR REASSESSMENT OF THEIR
TOXICITY VALUES**

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LIST OF ACRONYMS

ATSDR	Agency for Toxic Substances and Disease Registry
CASRN	Chemical Abstract Services Registry Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DLA	Defense Logistics Agency
DoD	United States Department of Defense
ERP	Environmental Restoration Program
ERPIMS	Environmental Restoration Program Information Management System (United States Air Force)
HMIRS	Hazardous Material Information Resource System
IRIS	Integrated Risk Information System (USEPA)
NPL	National Priorities List
OEHT	Occupational and Environmental Health Division, Technical Services Branch (USAFSAM)
RSL	Regional Screening Level
U.S.	United States
USAFSAM	United States Air Force School of Aerospace Medicine
USEPA	United States Environmental Protection Agency

Identification of Chemicals of Interest to the Department of Defense and the U.S. Air Force Among the U.S. Environmental Protection Agency's Integrated Risk Information System Chemicals that are due for Reassessment of Their Toxicity Values

INTRODUCTION

The U.S. Environmental Protection Agency (USEPA) Office of Research and Development informed the Office of the Secretary of Defense that it planned to review/update all of its older (>10 years) Integrated Risk Information System (IRIS) files. Such updates would include revisions to toxicity and cancer potency values warranted by scientific information developed since institution or last update of the prevailing values. Some of these chemicals may be of interest to the United States (U.S.) Department of Defense (DoD) and/or of particular interest to the U.S. Air Force because revisions in toxicity/carcinogenicity values may make the use of products more or less desirable and may affect the cost of remediation of environmental restoration sites contaminated with these chemicals. Readily available databases were used to assess and to rank the potential DoD stake in the IRIS chemicals due for reevaluation, hereafter called the IRIS chemicals of interest.

DATA SOURCES

A USEPA-derived table of IRIS chemicals due for reevaluation of their toxicity values was provided by the U.S. Air Force School of Aerospace Medicine (USAFSAM) Technical Services Division (OEHT). The table included 473 chemicals with Chemical Abstract Services Registry Numbers (CASRNs) that are evaluated in this report (additional detail in Appendix A).

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Priority List of Hazardous Substances was used to provide an indication of the interest of the environmental regulatory agencies in the IRIS chemicals of interest. The CERCLA requires that the USEPA and the Agency for Toxic Substances and Disease Registry (ATSDR) prepare a list, in order of priority, of at least 100 hazardous substances that are most commonly found at facilities on the National Priorities List (NPL) and which are determined to pose the most substantial potential threat to human health due to their known or suspected toxicity to humans and the potential for human exposure to such substances (additional detail in Appendix A). This database provides a metric of the interest the environmental and health agencies may have in the IRIS chemicals of interest.

The Hazardous Material Information Resource System (HMIRS) was used to evaluate the potential interest of the supply side of the DoD in the IRIS chemicals of interest. The HMIRS is a DoD system developed and maintained by the Defense Logistics Agency (DLA) as a central repository for Material Safety Data Sheets for the United States government military services and civil agencies. The HMIRS provides these data for hazardous materials purchased by the federal government through the DoD and civil agencies (additional detail in Appendix A). Querying this database provided a metric of the number of products purchased by the DLA that contain the IRIS chemicals of interest.

The Environmental Restoration Program (ERP) Information Management System (ERPIMS) was used to evaluate the Air Force stake in the IRIS chemicals of interest. The ERPIMS is the Air Force system for validation and management of data from environmental projects at all Air Force installations. The data it contains include analytical chemistry samples, test results, and site and location descriptions. The ERPIMS was queried to obtain the number of ERP sites at which each of the IRIS chemicals of interest had been detected and to find the maximum concentration of each chemical in the soil and groundwater at those sites. Because many of the detected chemicals are naturally occurring, the maximum soil and groundwater concentrations were compared to the residential soil and tap water Regional Screening Levels (RSLs). The RSLs are concentrations of selected chemicals in environmental media that are anticipated to not result in adverse health effects based on relatively conservative exposure scenarios (USEPA Region 9, 2009). The results of this evaluation were used to provide a metric of interest to the Air Force ERP (additional detail in Appendix A).

SCORING THE IRIS CHEMICALS OF INTEREST FOR RELEVANCE TO THE DOD

The CASRN of the IRIS chemicals of interest were compared to those on the ATSDR NPL priority list, the HMIRS, and the ERPIMS. Of the 473 chemicals on the IRIS list, 133 of them are among the 275 chemicals on the 2007 CERCLA Priority List of Hazardous Substances (ATSDR, 2007), 386 are chemicals or ingredients of products purchased by the DLA, and 167 of them are found at Air Force ERP sites. Of the 167 found at Air Force ERP sites, 108 are found at concentrations exceeding residential soil and/or tap water RSLs (additional detail in Appendix A).

In order to use the information from the three databases (ATSDR, HMIRS, ERPIMS/RSL) to score the IRIS chemicals of interest, ATSDR chemical points were used, along with the number of Product Identity entries with which each chemical was associated in the HMIRS and the sum of the soil and groundwater ERP sites at which the concentrations of chemicals exceeded the residential and tap water RSLs, respectively. The ATSDR ranks the chemicals on its priority list using an equation based on the chemical's frequency of occurrence at NPL sites, its toxicity, and the potential for human exposure to the chemical (ATSDR, 2007). With this system, the maximum number of points assigned to a chemical is 1,800. The HMIRS associates the CASRN for the IRIS chemicals of interest with 151,413 Stock Numbers indicating that these products are the chemical or the chemical is a component of the product. The ERPIMS evaluation indicates that the IRIS chemicals of interest have been found at more than 1,000 of the 6,675 ERP soil and groundwater sites at concentrations exceeding the respective RSLs.

To combine the information in the three databases (ATSDR, HMIRS, ERPIMS/RSL) and use it to rank the IRIS chemicals of interest, the greatest number of points assigned by the ATSDR to a chemical (1672.58), the greatest number of Product Identity entries associated with a single chemical (10,696), and the greatest number of Air Force ERP soil and groundwater sites at which a single chemical exceeded the respective RSLs (1,641) were each set equal to an arbitrary score of 10,000. Points (ATSDR), numbers of Product Identity associations (HMIRS), and numbers of soil and groundwater site associations (ERPIMS/RSL) less than the maximum were set at their fractional value of the maximum.

The values for each chemical in the three databases were summed and the results (scores) are ordered in Table 1a. To retain the information on the standing of each chemical within its respective database, the rank of that chemical is also provided. For example, in Table 1a, ethylbenzene was given an HMIRS score of 10,000 because it was associated with the greatest number of Product Identity numbers (10,696) and, thus, has the HMIRS ranking of “1”. Ethylbenzene was the chemical with the 59th highest number of ATSDR points, while it ranked 7th in the number of ERP soil and groundwater sites in which it was found at concentrations greater than the RSLs. Chemicals with the same score were also given the same rank; Table 1a only displays those IRIS chemicals of interest (393) that were found in at least one of the three databases used in this evaluation. Table 1b provides the same information as Table 1a with the chemicals organized by chemical name to facilitate finding information on a specific chemical.

To better estimate DoD and Air Force interest in the IRIS chemicals of interest, the ATSDR values were eliminated from the ordering described above. The results using only the HMIRS and ERPIMS/RSL scores are in bold font in Table 2a. The results of the sorting in Table 1a are retained in Table 2a to facilitate consideration of the impact of the ATSDR score on the ordering of the chemicals. As in Table 1a, only those IRIS chemicals of interest found in at least one of the databases used in this evaluation are displayed. Table 2b provides the same information as Table 2a with the chemicals organized by chemical name to facilitate finding information on a specific chemical.

REFERENCES

- ATSDR, 2007. 2007 CERCLA Priority List of Hazardous Substances that will be the Subject of Toxicological Profiles and Support Document. <http://www.atsdr.cdc.gov/cercla/supportdocs/text.pdf> accessed 26 June 2009.
- USEPA Region 9, 2009. Preliminary Remediation Goals – Screening Levels for Chemical Contaminants. <http://www.epa.gov/region09/superfund/prg/index.html> accessed 1 October 2009.

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TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
1	Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,641	10,000	1	1,570	25	10,000	1	21,570
2	Ethylbenzene	100-41-4	832.13	10,696	543	4,975	59	10,000	1	3,309	7	18,284
3	Nickel	7440-02-0	1,005.40	7,850	0	6,011	37	7,339	3			13,350
4	Benzo [a] pyrene	50-32-8	1,312.45	41	729	7,847	5	38	126	4,442	3	12,328
5	Naphthalene	91-20-3	896.67	1,635	818	5,361	43	1,529	27	4,985	2	11,874
6	Manganese	7439-96-5	807.90	7,411	0	4,830	66	6,929	5			11,759
7	Copper	7440-50-8	804.86	6,993	39	4,812	69	6,538	6	238	42	11,588
8	Mercury, elemental	7439-97-6	1,504.69	1,588	160	6,996	2	1,485	29	975	23	11,456
9	Trichloroethylene	79-01-6	1,154.73	568	631	6,904	10	531	49	3,845	4	11,280
10	Dichloromethane	75-09-2	888.96	4,136	302	5,315	44	3,867	9	1,840	13	11,022
11	Benzo(b)fluoranthene	205-99-2	1,266.55	25	549	7,572	6	23	141	3,346	6	10,941
12	Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	6	8,166	3	2,609	14	37	61	10,812
13	Tetrachloroethylene	127-18-4	1,080.43	929	565	6,460	23	869	40	3,443	5	10,771
14	Cadmium	7440-43-9	1,324.22	1,970	110	7,917	4	1,842	24	670	27	10,429
15	Dibenzo(a,h)anthracene	53-70-3	1,165.88	23	457	6,971	9	22	142	2,785	10	9,777
16	Benzo(a)anthracene	56-55-3	1,057.96	33	529	6,325	27	31	133	3,224	8	9,580
17	Ethylene glycol	107-21-1		10,234	0			9,568	2			9,568
18	Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	337	5,495	42	1,226	32	2,054	12	8,774
19	1,1,1-Trichloroethane	71-55-6	833.81	3,552	7	4,985	57	3,321	11	43	60	8,349
20	Dieldrin	60-57-1	1,150.91	45	173	6,881	11	42	123	1,054	21	7,977
21	White phosphorus	7723-14-0	1,144.77	1,054	0	6,844	13	985	38			7,830
22	1,2-Dichloroethane	107-06-2	863.99	440	359	5,166	47	411	55	2,188	11	7,765
23	Carbon tetrachloride	56-23-5	1,023.32	292	215	6,118	34	273	64	1,310	18	7,701
24	Archlor 1254	11097-69-1	1,182.63	70	92	7,071	8	65	104	561	30	7,697
25	p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	15	7,135	7	107	84	91	54	7,333

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
26	Aldrin	309-00-2	1,117.22	44	97	6,680	17	41	124	591	29	7,312
27	Hexachlorobutadiene	87-68-3	1,129.63		85	6,754	15			518	31	7,272
28	Benzo(k)fluoranthene	207-08-9	981.26	24	216	5,867	40	22	142	1,316	17	7,205
29	Methanol	67-56-1		7,659	0			7,161	4			7,161
30	Chromium (VI)	18540-29-9	1,149.98	147	19	6,875	12	137	79	116	50	7,129
31	Indeno[1,2,3-cd]pyrene	193-39-5	703.30	23	474	4,205	88	22	142	2,888	9	7,115
32	Dibutyl phthalate	84-74-2	1,007.49	1,132	16	6,024	36	1,058	33	6	66	7,088
33	p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	1,132.49	37	45	6,771	14	35	129	274	41	7,080
34	p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	38	6,665	18	35	129	232	43	6,931
35	Heptachlor	76-44-8	1,072.67	54	72	6,413	24	50	117	439	33	6,903
36	Heptachlor epoxide	1024-57-3	1,027.12	45	104	6,141	33	42	123	634	28	6,817
37	gamma-Hexachlorocyclohexane	58-89-9	1,081.63	82	39	6,467	22	77	100	238	42	6,781
38	Creosote	8001-58-9	1,124.32	32		6,722	16	30	134			6,752
39	beta-Hexachlorocyclohexane	319-85-7	1,060.22	29	58	6,339	25	27	137	353	36	6,719
40	Benzidine	92-87-5	1,114.24	23	4	6,662	19	22	142	24	63	6,708
41	1,2-Dibromo-3-chloropropane	96-12-8	1,035.55	30	80	6,191	31	28	136	488	32	6,707
42	Beryllium and compounds	7440-41-7	1,046.12	379	11	6,255	29	354	56	67	56	6,676
43	Cyanide, free	57-12-5	1,099.48	48	0	6,574	20	45	121			6,618
44	Pentachlorophenol	87-86-5	1,028.01	110	60	6,146	32	103	85	366	35	6,615
45	Toxaphene	8001-35-2	1,086.65	24	9	6,497	21	22	142	55	58	6,574
46	Disulfoton	298-04-4	1,058.85	25	0	6,331	26	23	141			6,354
47	Endrin	72-20-8	1,048.57	58	1	6,269	28	54	114	6	66	6,329
48	1,4-Dichlorobenzene	106-46-7	737.32	246	276	4,408	80	230	69	1,682	15	6,320
49	delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30		6,208	30	28	136			6,236
50	Arochlor 1016	12674-11-2	1,014.33	41	10	6,064	35	38	126	61	57	6,164
51	Silver	7440-22-4	612.19	2,491	17	3,660	105	2,329	16	104	52	6,093
52	Endosulfan	115-29-7	1,004.65	3	0	6,007	38	3	161			6,009
53	Methoxychlor	72-43-5	994.47	63	0	5,946	39	59	109			6,005

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
54	n-Butanol	71-36-3		6,253	0			5,846	7			5,846
55	Ammonia	7664-41-7	745.55	1,453		4,457	79	1,358	31			5,816
56	1,1,2-Trichloroethane	79-00-5	724.96	51	226	4,334	83	48	118	1,377	16	5,759
57	Chlorobenzene	108-90-7	819.69	213	85	4,901	62	199	74	518	31	5,618
58	Antimony	7440-36-0	605.37	2,105	0	3,619	107	1,968	22			5,587
59	Chrysene	218-01-9	802.10	34	117	4,796	71	32	132	713	26	5,540
60	Cacodylic acid	75-60-5	922.06	11	0	5,513	41	10	154			5,523
61	1,1,2,2-Tetrachloroethane	79-34-5	782.15	43	127	4,676	74	40	125	774	25	5,490
62	Asbestos	1332-21-4	841.54	475		5,031	51	444	53			5,475
63	1,1-Dichloroethane	75-34-3	736.23	45	168	4,402	81	42	123	1,024	22	5,468
64	Bis(chloroethyl)ether	111-44-4	859.88	20	39	5,141	50	19	145	238	42	5,397
65	2,4-Dinitrotoluene	121-14-2	837.88	43	53	5,010	55	40	125	323	39	5,373
66	2,4,6-Trinitrotoluene	118-96-7	883.59	51	6	5,283	45	48	118	37	61	5,367
67	alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	80	4,840	65	29	135	488	32	5,357
68	2,4,6-Trichlorophenol	88-06-2	863.71	35	22	5,164	48	33	131	134	48	5,331
69	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	34	5,024	53	95	89	207	44	5,326
70	Hexachlorobenzene	118-74-1	838.34	88	33	5,012	54	82	97	201	45	5,296
71	Hydrazine/hydrazine sulfate	302-01-2	864.41	69	5	5,168	46	65	105	30	62	5,263
72	Chlorine	7782-50-5	840.37	241	0	5,024	52	225	70			5,250
73	N-Nitrosodi-N-propylamine	621-64-7	811.05	23	60	4,849	64	22	142	366	35	5,236
74	2,4-Dinitrophenol	51-28-5	860.45	34	9	5,144	49	32	132	55	58	5,231
75	Selenium and compounds	7782-49-2	778.98	296	29	4,657	75	277	63	177	46	5,111
76	Butyl benzyl phthalate	85-68-7	659.38	1,070	17	3,942	93	1,000	36	104	52	5,046
77	Uranium, natural	7440-61-1	833.41	59	0	4,983	58	55	113			5,038
78	Ethion	563-12-2	834.03	6	0	4,986	56	6	158			4,992
79	Chlorpyrifos	2921-88-2	804.93	166	0	4,813	68	155	76			4,968
80	Radium 226,228	7440-14-4	828.07			4,951	60					4,951
81	1,3,5-Trinitrobenzene	99-35-4	820.17	7	0	4,904	61	7	157			4,910

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
82	Coke oven emissions	8007-45-2	807.07	77		4,825	67	72	102			4,897
83	Fluoranthene	206-44-0	812.40	32	0	4,857	63	30	134			4,887
84	Hydrogen cyanide	74-90-8	803.08	32	0	4,801	70	30	134			4,831
85	Dibromochloromethane	124-48-1	580.59	48	208	3,471	119	45	121	1,268	19	4,784
86	Merphos oxide	78-48-8	797.88	2	0	4,770	72	2	162			4,772
87	Styrene	100-42-5	532.70	1,646	13	1,185	130	1,539	26	6	66	4,730
88	Parathion	56-38-2	784.14	8	0	4,688	73	7	157	0		4,696
89	trans-1,2-Dichloroethylene	156-60-5	704.04	136	57	4,209	87	127	81	347	37	4,684
90	technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	0	4,633	76	4	160			4,637
91	Trifluralin	1582-09-8	770.12	27	0	4,604	77	25	139			4,630
92	1,2-Dichlorobenzene	95-50-1	704.91	249	22	4,215	86	233	68	134	48	4,581
93	Pentachlorobenzene	608-93-5	753.58	4	0	4,505	78	4	160			4,509
94	Acenaphthene	83-32-9	731.25	37	2	4,372	82	35	129	12	65	4,419
95	cis-1,2-Dichloroethylene	156-59-2	533.15	27	197	3,188	129	25	139	1,200	20	4,413
96	1,4-Dioxane	123-91-1	616.29	623	23	3,685	102	582	46	140	47	4,407
97	4-Methylphenol	106-44-5	707.83	39	16	4,232	85	36	128	98	53	4,366
98	1,2,4-Trichlorobenzene	120-82-1	647.30	56	63	3,870	97	52	115	384	34	4,306
99	1,2-Diphenylhydrazine	122-66-7	713.90	1	0	4,268	84	1	163			4,269
100	Carbon disulfide	75-15-0	702.55	40	4	4,200	89	37	127	24	63	4,262
101	Ethyl chloride	75-00-3	693.90	64	1	4,149	90	60	108	6	66	4,215
102	2,4-Dimethylphenol	105-67-9	685.76	26	8	4,100	92	24	140	49	59	4,173
103	Dibenzofuran	132-64-9	689.19	17		4,121	91	16	148			4,136
104	Ethyl acetate	141-78-6		4,385	0			4,100	8			4,100
105	Hexachloro ethane	67-72-1	653.10	39	23	3,905	95	36	128	140	47	4,081
106	2-Methylphenol	95-48-7	658.66	103	3	3,938	94	96	88	18	64	4,053
107	N-Nitrosodimethylamine	62-75-9	650.71	16	22	3,890	96	15	149	134	48	4,039
108	Bromoform	75-25-2	643.53	68	21	3,848	98	64	106	128	49	4,039
109	Tricresol	1319-77-3	602.74	272	0	3,604	109	254	65			3,858

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
110	N-Nitrosodiphenylamine	86-30-6	624.79	29	14	3,735	100	27	137	85	55	3,848
111	1,3-Dichlorobenzene	541-73-1	631.41	62		3,775	99	58	110			3,833
112	Propylene glycol	57-55-6		4,063	0			3,799	10			3,799
113	N,N-Dimethylformamide	68-12-2	578.23	363	0	3,457	122	339	59			3,796
114	2,4-Dichlorophenol	120-83-2	616.45		3	3,686	101			18	64	3,704
115	Fluorine, soluble fluoride	7782-41-4	613.28		0	3,667	103					3,667
116	Nitrite	14797-65-0	612.64		0	3,663	104					3,663
117	Nitrate	14797-55-8	610.66	2	0	3,651	106	2	162			3,653
118	Dichlorvos	62-73-7	601.64	49	0	3,597	113	46	120			3,643
119	Mercuric chloride	7487-94-7	601.45	50	0	3,596	114	47	119			3,643
120	2,4,5-Trichlorophenol	95-95-4	604.83	21	0	3,616	108	20	144			3,636
121	2-Chlorophenol	95-57-8	599.62	36	0	3,585	116	34	130			3,619
122	Naled	300-76-5	602.32	18	0	3,601	112	17	147			3,618
123	Dimethoate	60-51-5	602.61	11	0	3,603	110	10	154			3,613
124	Arsine	7784-42-1	602.42	11		3,602	111	10	154			3,612
125	Phenanthrene	85-01-8	597.68	36		3,573	117	34	130			3,607
126	Chlordane (technical)	12789-03-6	602.62	1	0	3,603	110	1	163			3,604
127	2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	0	3,494	118	102	86			3,596
128	Formaldehyde	50-00-0	599.64		0	3,585	115					3,585
129	Diuron	330-54-1	579.16	72	0	3,463	120	67	103			3,530
130	Pyrene	129-00-0	577.95	30	2	3,455	123	28	136	12	65	3,496
131	Butylate	2008-41-5	578.43	5	0	3,458	121	5	159			3,463
132	Acrylonitrile	107-13-1	528.28	265	8	3,158	132	248	67	49	59	3,455
133	p-Nitrophenol	100-02-7	567.79	55		3,395	124	51	116			3,446
134	2,6-Dinitrotoluene	606-20-2	555.20	20	7	3,319	126	19	145	43	60	3,381
135	Phosphine	7803-51-2	559.74	16	0	3,347	125	15	149			3,362
136	di(2-ethylhexyl)Adipate	103-23-1	540.20	50	0	3,230	128	47	119			3,276
137	Methyl parathion	298-00-0	545.83	7	0	3,263	127	7	157			3,270

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
138	Carbaryl	63-25-2	530.98	93	0	3,175	131	87	94			3,262
139	Molybdenum	7439-98-7		3,186	19			2,979	12	116	50	3,094
140	Cyclohexanone	108-94-1		2,829	0			2,645	13			2,645
141	Hydrogen chloride	7647-01-0		2,670				2,496	15			2,496
142	Phosphoric acid	7664-38-2		2,437				2,278	17			2,278
143	Isobutyl alcohol	78-83-1		2,432	0			2,274	18			2,274
144	Hydroquinone	123-31-9		2,337	0			2,185	19			2,185
145	1,6-Hexamethylene diisocyanate	822-06-0		2,283	0			2,134	20			2,134
146	n-Heptane	142-82-5		2,116				1,978	21			1,978
147	Propylene glycol monomethyl ether	107-98-2		2,048	0			1,915	23			1,915
148	Bromodichloromethane	75-27-4		50	281			47	119	1,712	14	1,759
149	Cumene	98-82-8		1,632	6			1,526	28	37	61	1,562
150	d-Limonene	5989-27-5		1,488				1,391	30			1,391
151	Methyl tert-butyl ether	1634-04-4		742	110			694	44	670	27	1,364
152	Sodium azide	26628-22-8		1,100	0			1,028	34			1,028
153	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	0			1,016	35			1,016
154	Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	0			993	37			993
155	Dichlorodifluoromethane	75-71-8		953	5			891	39	30	62	921
156	Vinyl acetate	108-05-4		953	0			891	39			891
157	1,2-Dichloropropane	78-87-5		51	132			48	118	804	24	852
158	Antimony trioxide	1309-64-4		906	0			847	41			847
159	1,1,1,2-Tetrafluoroethane	811-97-2		775	0			725	42			725
160	Chlorodifluoromethane	75-45-6		774	0			724	43			724
161	2-Ethoxyethanol	110-80-5		688	0			643	45			643
162	Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	0			561	47			561
163	Vanadium pentoxide	1314-62-1		587	0			549	48			549
164	2-Methoxyethanol	109-86-4		559	0			523	50			523
165	Epichlorohydrin	106-89-8		559	0			523	50			523

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ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
166	Trichlorofluoromethane	75-69-4		535	3			500	51	18	64	518
167	1,2,3-Trichloropropane	96-18-4		20	80			19	145	488	32	506
168	Bisphenol A	80-05-7		482	0			451	52			451
169	Triethylamine	121-44-8		459	0			429	54			429
170	1,1,1,2-Tetrachloroethane	630-20-6		19	55			18	146	335	38	353
171	Ethylene diamine	107-15-3		377	0			352	57			352
172	Ammonium acetate	631-61-8		368				344	58			344
173	Bromomethane	74-83-9		63	46			59	109	280	40	339
174	Acetaldehyde	75-07-0		323	1			302	60	6	66	308
175	Acrylamide	79-06-1		303	0			283	61			283
176	1,2-Epoxybutane	106-88-7		300	0			280	62			280
177	Nitrobenzene	98-95-3		37	39			35	129	238	42	272
178	Formic acid	64-18-6		271	1			253	66	6	66	259
179	Isophorone	78-59-1		237	4			222	72	24	63	246
180	Propylene oxide	75-56-9		246	0			230	69			230
181	Phenylmercuric acetate	62-38-4		240	0			224	71			224
182	Acrylic acid	79-10-7		234	0			219	73			219
183	p-Chloroaniline	106-47-8		8	34			7	157	207	44	215
184	o-Dinitrobenzene	528-29-0			34					207	44	207
185	Chlorothalonil	1897-45-6		205	0			192	75			192
186	2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	18			51	116	110	51	161
187	Potassium cyanide	151-50-8		161	0			151	77			151
188	Cyclohexylamine	108-91-8		154	0			144	78			144
189	Aniline	62-53-3		140	0			131	80			131
190	Diphenylamine	122-39-4		123	0			115	82			115
191	Chromium III, insoluble salts	16065-83-1		118	0			110	83			110
192	Selenious acid	7783-00-8		110	0			103	85			103
193	Baygon	114-26-1		106	0			99	87			99

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ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
194	Tributyltin oxide	56-35-9		106	0			99	87			99
195	Permethrin	52645-53-1		103	0			96	88			96
196	Methyl acrylate	96-33-3		102	0			95	89			95
197	Benzaldehyde	100-52-7		101	0			94	90			94
198	Tetraethyl lead	78-00-2		99	0			93	91			93
199	1,1-Biphenyl	92-52-4		98	0			92	92			92
200	o-Chlorotoluene	95-49-8		94	0			88	93			88
201	Thiram	137-26-8		93	0			87	94			87
202	Sodium cyanide	143-33-9		90	0			84	95			84
203	m-Phenylenediamine	108-45-2		89	0			83	96			83
204	Pentafluoroethane	354-33-6		86	0			80	98			80
205	Resmethrin	10453-86-8		86	0			80	98			80
206	Pyridine	110-86-1		83	0			78	99			78
207	Malathion	121-75-5		80	0			75	101			75
208	Amdro	67485-29-4		77	0			72	102			72
209	Folpet	133-07-3		68	0			64	106			64
210	N,N-Dimethylaniline	121-69-7		68	0			64	106			64
211	Ethylene thiourea	96-45-7		65	0			61	107			61
212	Trichloroacetic acid	76-03-9		62				58	110			58
213	Furfural	98-01-1		61	0			57	111			57
214	Triethylene glycol monobutyl ether	143-22-6		60				56	112			56
215	Dicamba	1918-00-9		58	0			54	114			54
216	Decabromodiphenyl ether (DBDPE)	1163-19-5		56	0			52	115			52
217	Diethyl phthalate	84-66-2		56	0			52	115			52
218	Bromochloromethane	74-97-5		55				51	116			51
219	Fluorene	86-73-7		19	5			18	146	30	62	48
220	Baythroid	68359-37-5		50	0			47	119			47
221	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0		46	0			43	122			43

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
222	Simazine	122-34-9		46	0			43	122			43
223	Atrazine	1912-24-9		37	1			35	129	6	66	41
224	2-Nitropropane	79-46-9		43	0			40	125			40
225	3-Methylphenol	108-39-4		43	0			40	125			40
226	Nitric Oxide	10102-43-9		43				40	125			40
227	2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	5			7	157	30	62	37
228	Anthracene	120-12-7		38	0			36	128			36
229	Dimethylamine	124-40-3		38				36	128			36
230	Glyphosate	1071-83-6		33	0			31	133			31
231	Diquat	85-00-7		32	0			30	134			30
232	Pendimethalin	40487-42-1		32	0			30	134			30
233	Acephate	30560-19-1		30	0			28	136			28
234	Hexazinone	51235-04-2		29	0			27	137			27
235	Silver cyanide	506-64-9		29	0			27	137			27
236	Prometon	1610-18-0		28	0			26	138			26
237	Selenium sulfide	7446-34-6		27	0			25	139			25
238	Thallium nitrate	10102-45-1		27	0			25	139			25
239	Cypermethrin	52315-07-8		26	0			24	140			24
240	beta-Chloronaphthalene	91-58-7		24	0			22	142			22
241	Hexachlorophene	70-30-4		24	0			22	142			22
242	Azobenzene	103-33-3		17	1			16	148	6	66	22
243	Caprolactam	105-60-2		23	0			22	142			22
244	Methomyl	16752-77-5		22	0			21	143			21
245	Maleic anhydride	108-31-6		21	0			20	144			20
246	Acetophenone	98-86-2		14	1			13	151	6	66	19
247	Bis(2-chloroethoxy)methane	111-91-1		14	1			13	151	6	66	19
248	Bis(2-chloroisopropyl) ether	108-60-1		14	1			13	151	6	66	19
249	Acenaphthylene	208-96-8		20				19	145			19

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
250	Copper cyanide	544-92-3		20	0			19	145			19
251	Dacthal	1861-32-1		20	0			19	145			19
252	Alachlor	15972-60-8		19	0			18	146			18
253	Aluminum phosphide	20859-73-8		19	0			18	146			18
254	Benzo[g,h,i]perylene	191-24-2		19				18	146			18
255	Zinc phosphide	1314-84-7		19	0			18	146			18
256	2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	0			16	148			16
257	2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	0			16	148			16
258	Propargyl alcohol	107-19-7		17	0			16	148			16
259	Tebuthiuron	34014-18-1		17	0			16	148			16
260	4-Aminopyridine	504-24-5		16				15	149			15
261	Benefin	1861-40-1		16	0			15	149			15
262	Metribuzin	21087-64-9		16	0			15	149			15
263	Methacrylonitrile	126-98-7		2	2			2	162	12	65	14
264	Bayleton	43121-43-3		15	0			14	150			14
265	N-Nitrosodiethylamine	55-18-5		1	2			1	163	12	65	13
266	1-Chlorobutane	109-69-3		14	0			13	151			13
267	3,3-Dimethylbenzidine	119-93-7		14	0			13	151			13
268	Dalapon (sodium salt)	75-99-0		14	0			13	151			13
269	Iprodione	36734-19-7		14	0			13	151			13
270	Oxadiazon	19666-30-9		14	0			13	151			13
271	Pentabromodiphenyl ether	32534-81-9		14	0			13	151			13
272	Potassium silver cyanide	506-61-6		14	0			13	151			13
273	Propachlor	1918-16-7		14	0			13	151			13
274	Pydrin	51630-58-1		14	0			13	151			13
275	4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	0			12	152			12
276	Dinoseb	88-85-7		13	0			12	152			12
277	Oryzalin	19044-88-3		13	0			12	152			12

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
278	2,6-Dimethylphenol	576-26-1		12	0			11	153			11
279	Biphenethrin	82657-04-3		12	0			11	153			11
280	Chlorobenzilate	510-15-6		12	0			11	153			11
281	Ethyl carbamate	51-79-6		12				11	153			11
282	Pentachloronitrobenzene	82-68-8		12	0			11	153			11
283	Quinone	106-51-4		11				10	154			10
284	2-Chloroacetophenone	532-27-4		10				9	155			9
285	4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	0			9	155			9
286	Captan	133-06-2		10	0			9	155			9
287	Metalaxyl	57837-19-1		10	0			9	155			9
288	Picloram	1918-02-1		10	0			9	155			9
289	Aluminum sulfamate	7773-06-0		9	0			8	156			8
290	Metolachlor	51218-45-2		9	0			8	156			8
291	Warfarin	81-81-2		9	0			8	156			8
292	Zinc cyanide	557-21-1		9	0			8	156			8
293	N-Nitroso-di-n-butylamine	924-16-3		2	1			2	162	6	66	8
294	2,4-Diaminotoluene	95-80-7		8	0			7	157			7
295	Chlorpropham	101-21-3		8	0			7	157			7
296	Endothall	145-73-3		8	0			7	157			7
297	Fluridone	59756-60-4		8	0			7	157			7
298	Paraquat	1910-42-5		8	0			7	157			7
299	Pronamide	23950-58-5		8	0			7	157			7
300	Tetrachlorovinphos	961-11-5		8	0			7	157			7
301	N-Nitroso-N-methylethylamine	10595-95-6		1	1			1	163	6	66	7
302	Benzyl chloride	100-44-7		7	0			7	157			7
303	Paclobutrazol	76738-62-0		7	0			7	157			7
304	Sodium diethyldithiocarbamate	148-18-5		7	0			7	157			7
305	Strychnine	57-24-9		7	0			7	157			7

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
306	Vernam	1929-77-7		7	0			7	157			7
307	2,3,4,6-Tetrachlorophenol	58-90-2		6	0			6	158			6
308	Allyl	74223-64-6		6	0			6	158			6
309	Ametryn	834-12-8		6	0			6	158			6
310	Barium cyanide	542-62-1		6				6	158			6
311	Benomyl	17804-35-2		6	0			6	158			6
312	Chloramben	133-90-4		6	0			6	158			6
313	Cyanogen	460-19-5		6	0			6	158			6
314	Fenamiphos	22224-92-6		6	0			6	158			6
315	Maneb	12427-38-2		6	0			6	158			6
316	Merphos	150-50-5		6	0			6	158			6
317	Propylene glycol monoethyl ether	52125-53-8		6				6	158			6
318	Rotenone	83-79-4		6	0			6	158			6
319	Thallic oxide	1314-32-5		6				6	158			6
320	Tralomethrin	66841-25-6		6	0			6	158			6
321	Carboxin	5234-68-4		5	0			5	159			5
322	Ethyleneimine	151-56-4		5				5	159			5
323	Molinate	2212-67-1		5	0			5	159			5
324	Nitroguanidine	556-88-7		5	0			5	159			5
325	Oxamyl	23135-22-0		5	0			5	159			5
326	Phosmet	732-11-6		5	0			5	159			5
327	1,2,4,5-Tetrachlorobenzene	95-94-3		4	0			4	160			4
328	Adiponitrile	111-69-3		4	0			4	160			4
329	Allyl chloride	107-05-1		4	0			4	160			4
330	Avermectin B1	65195-55-3		4	0			4	160			4
331	Carbofuran	1563-66-2		4	0			4	160			4
332	Carbonyl sulfide	463-58-1		4				4	160			4
333	Cyanazine	21725-46-2		4	0			4	160			4

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
334	Dimethyl sulfate	77-78-1		4	0			4	160			4
335	Isoxaben	82558-50-7		4	0			4	160			4
336	Methyl chlorocarbonate	79-22-1		4				4	160			4
337	N-Nitrosodiethanolamine	1116-54-7		4	0			4	160			4
338	Oxyfluorfen	42874-03-3		4	0			4	160			4
339	Prometryn	7287-19-6		4	0			4	160			4
340	Propiconazole	60207-90-1		4	0			4	160			4
341	S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	0			4	160			4
342	Tetraethyldithiopyrophosphate	3689-24-5		4	0			4	160			4
343	Thallium acetate	563-68-8		4	0			4	160			4
344	Vinclozolin	50471-44-8		4	0			4	160			4
345	3,4-Dimethylphenol	95-65-8		3	0			3	161			3
346	Aldicarb	116-06-3		3	0			3	161			3
347	Aldicarb sulfone	1646-88-4		3	0			3	161			3
348	Amitraz	33089-61-1		3	0			3	161			3
349	Benzotrithloride	98-07-7		3	0			3	161			3
350	Bromoxynil octanoate	1689-99-2		3	0			3	161			3
351	Diphenamid	957-51-7		3	0			3	161			3
352	Dodine	2439-10-3		3	0			3	161			3
353	Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	0			3	161			3
354	Fonofos	944-22-9		3	0			3	161			3
355	Nonabromodiphenyl ether	63936-56-1		3				3	161			3
356	Norflurazon	27314-13-2		3	0			3	161			3
357	Propazine	139-40-2		3	0			3	161			3
358	Sethoxydim	74051-80-2		3	0			3	161			3
359	Terbacil	5902-51-2		3	0			3	161			3
360	Terbutryn	886-50-0		3	0			3	161			3
361	Zineb	12122-67-7		3	0			3	161			3

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
362	1,2,4-Tribromobenzene	615-54-3		2	0			2	162			2
363	1,4-Dibromobenzene	106-37-6		2	0			2	162			2
364	Acifluorfen, sodium	62476-59-9		2	0			2	162			2
365	Aramite	140-57-8		2	0			2	162			2
366	Bidrin	141-66-2		2	0			2	162			2
367	Calcium cyanide	592-01-8		2	0			2	162			2
368	Chlorsulfuron	64902-72-3		2	0			2	162			2
369	Dimethyl terephthalate (DMT)	120-61-6		2	0			2	162			2
370	Flutolanil	66332-96-5		2	0			2	162			2
371	Fluvalinate	69409-94-5		2	0			2	162			2
372	Imazaquin	81335-37-7		2	0			2	162			2
373	Napropamide	15299-99-7		2	0			2	162			2
374	Nitrapyrin	1929-82-4		2				2	162			2
375	Octabromodiphenyl ether	32536-52-0		2	0			2	162			2
376	p,p'-Dibromodiphenyl ether	2050-47-7		2				2	162			2
377	Sodium fluoroacetate	62-74-8		2	0			2	162			2
378	Allyl alcohol	107-18-6		1	0			1	163			1
379	Bromotrichloromethane	75-62-7		1				1	163			1
380	Diethyl sulfate	64-67-5		1				1	163			1
381	Fluometuron	2164-17-2		1	0			1	163			1
382	Furan	110-00-9		1	0			1	163			1
383	Isopropalin	33820-53-0		1	0			1	163			1
384	Linuron	330-55-2		1	0			1	163			1
385	Maleic hydrazide	123-33-1		1	0			1	163			1
386	N-Nitrosopyrrolidine	930-55-2		1	0			1	163			1
387	Systhane	88671-89-0		1	0			1	163			1
388	t-Butyl chloride	507-20-0		1				1	163			1
389	Thallium (I) sulfate	7446-18-6		1	0			1	163			1

TABLE 1a. Ranking of the IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
390	Thallium carbonate	6533-73-9		1	0			1	163			1
391	Thallium chloride	7791-12-0		1	0			1	163			1
392	Thiobencarb	28249-77-6		1	0			1	163			1
393	Triallate	2303-17-5		1	0			1	163			1

* 0 = no RSL exceedances; blank = no RSL

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TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS
(Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
1	1,1,1,2-Tetrachloroethane	630-20-6		19	55			18	146	335	38	353
2	1,1,1,2-Tetrafluoroethane	811-97-2		775	0			725	42			725
3	1,1,1-Trichloroethane	71-55-6	833.81	3,552	74	985	57	3,321	11	43	60	8,349
4	1,1,2,2-Tetrachloroethane	79-34-5	782.15	43	127	4,676	74	40	125	774	25	5,490
5	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	0			1,016	35			1,016
6	1,1,2-Trichloroethane	79-00-5	724.96	51	226	4,334	83	48	118	1,377	16	5,759
7	1,1-Biphenyl	92-52-4		98	0			92	92			92
8	1,1-Dichloroethane	75-34-3	736.23	45	168	4,402	81	42	123	1,024	22	5,468
9	1,2,3-Trichloropropane	96-18-4		20	80			19	145	488	32	506
10	1,2,4,5-Tetrachlorobenzene	95-94-3		4	0			4	160			4
11	1,2,4-Tribromobenzene	615-54-3		2	0			2	162			2
12	1,2,4-Trichlorobenzene	120-82-1	647.30	56	63	3,870	97	52	115	384	34	4,306
13	1,2-Dibromo-3-chloropropane	96-12-8	1,035.55	30	80	6,191	31	28	136	488	32	6,707
14	1,2-Dichlorobenzene	95-50-1	704.91	249	22	4,215	86	233	68	134	48	4,581
15	1,2-Dichloroethane	107-06-2	863.99	440	359	5,166	47	411	55	2,188	11	7,765
16	1,2-Dichloropropane	78-87-5		51	132			48	118	804	24	852
17	1,2-Diphenylhydrazine	122-66-7	713.90	1	0	4,268	84	1	163			4,269
18	1,2-Epoxybutane	106-88-7		300	0			280	62			280
19	1,3,5-Trinitrobenzene	99-35-4	820.17	7	0	4,904	61	7	157			4,910
20	1,3-Dichlorobenzene	541-73-1	631.41	62		3,775	99	58	110			3,833
21	1,4-Dibromobenzene	106-37-6		2	0			2	162			2
22	1,4-Dichlorobenzene	106-46-7	737.32	246	276	4,408	80	230	69	1,682	15	6,320
23	1,4-Dioxane	123-91-1	616.29	623	23	3,685	102	582	46	140	47	4,407
24	1,6-Hexamethylene diisocyanate	822-06-0		2,283	0			2,134	20			2,134
25	1-Chlorobutane	109-69-3		14	0			13	151			13

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
26	2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	0			16	148			16
27	2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	18			51	116	110	51	161
28	2,3,4,6-Tetrachlorophenol	58-90-2		6	0			6	158			6
29	2,4,5-Trichlorophenol	95-95-4	604.83	21	0	3,616	108	20	144			3,636
30	2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	0			16	148			16
31	2,4,6-T richlorophenol	88-06-2	863.71	35	22	5,164	48	33	131	134	48	5,331
32	2,4,6-T rinitrotoluene	118-96-7	883.59	51	6	5,283	45	48	118	37	61	5,367
33	2,4-Diaminotoluene	95-80-7		8	0			7	157			7
34	2,4-Dichlorophenol	120-83-2	616.45		3	3,686	101			18	64	3,704
35	2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	0	3,494	118	102	86			3,596
36	2,4-Dimeth ylphenol	105-67-9	685.76	26	8	4,100	92	24	140	49	59	4,173
37	2,4-Dinitrophe nol	51-28-5	860.45	34	9	5,144	49	32	132	55	58	5,231
38	2,4-Dinitrotoluen e	121-14-2	837.88	43	53	5,010	55	40	125	323	39	5,373
39	2,6-Dimethylphenol	576-26-1		12	0			11	153			11
40	2,6-Dinitrotoluen e	606-20-2	555.20	20	7	3,319	126	19	145	43	60	3,381
41	2-Chloroacetophenone	532-27-4		10				9	155			9
42	2-Chlorophenol	95-57-8	599.62	36	0	3,585	116	34	130			3,619
43	2-Ethoxyethanol	110-80-5		688	0			643	45			643
44	2-Methoxyethanol	109-86-4		559	0			523	50			523
45	2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	5			7	157	30	62	37
46	2-Meth ylphenol	95-48-7	658.66	103	3	3,938	94	96	88	18	64	4,053
47	2-Nitropropane	79-46-9		43	0			40	125			40
48	3,3-Dimethylbenzidine	119-93-7		14	0			13	151			13
49	3,4-Dimethylphenol	95-65-8		3	0			3	161			3
50	3-Methylphenol	108-39-4		43	0			40	125			40
51	4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	0			12	152			12
52	4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	0			9	155			9
53	4-Aminopyridine	504-24-5		16				15	149			15

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
54	4-Methylphenol	106-44-5	707.83	39	16	4,232	85	36	128	98	53	4,366
55	Acenaphthene	83-32-9	731.25	37	2	4,372	82	35	129	12	65	4,419
56	Acenaphthylene	208-96-8		20				19	145			19
57	Acephate	30560-19-1		30	0			28	136			28
58	Acetaldehyde	75-07-0		323	1			302	60	6	66	308
59	Acetophenone	98-86-2		14	1			13	151	6	66	19
60	Acifluorfen, sodium	62476-59-9		2	0			2	162			2
61	Acrylamide	79-06-1		303	0			283	61			283
62	Acrylic acid	79-10-7		234	0			219	73			219
63	Acrylonitrile	107-13-1	528.28	265	8	3,158	132	248	67	49	59	3,455
64	Adiponitrile	111-69-3		4	0			4	160			4
65	Alachlor	15972-60-8		19	0			18	146			18
66	Aldicarb	116-06-3		3	0			3	161			3
67	Aldicarb sulfone	1646-88-4		3	0			3	161			3
68	Alcryn	309-00-2	1,117.22	44	97	6,680	17	41	124	591	29	7,312
69	Allyl	74223-64-6		6	0			6	158			6
70	Allyl alcohol	107-18-6		1	0			1	163			1
71	Allyl chloride	107-05-1		4	0			4	160			4
72	alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	80	4,840	65	29	135	488	32	5,357
73	Aluminum phosphide	20859-73-8		19	0			18	146			18
74	Aluminum sulfamate	7773-06-0		9	0			8	156			8
75	Amdro	67485-29-4		77	0			72	102			72
76	Ametryn	834-12-8		6	0			6	158			6
77	Amitraz	33089-61-1		3	0			3	161			3
78	Ammonia	7664-41-7	745.55	1,453		4,457	79	1,358	31			5,816
79	Ammonium acetate	631-61-8		368				344	58			344
80	Aniline	62-53-3		140	0			131	80			131
81	Anthracene	120-12-7		38	0			36	128			36

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
82	Antimony	7440-36-0	605.37	2,105	0	3,619	107	1,968	22			5,587
83	Antimony trioxide	1309-64-4		906	0			847	41			847
84	Aramite	140-57-8		2	0			2	162			2
85	Arochlor 1016	12674-11-2	1,014.33	41	10	6,064	35	38	126	61	57	6,164
86	Arochlor 1254	11097-69-1	1,182.63	70	92	7,071	8	65	104	561	30	7,697
87	Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,641	10,000	1	1,570	25	10,000	1	21,570
88	Arsine	7784-42-1	602.42	11		3,602	111	10	154			3,612
89	Asbestos	1332-21-4	841.54	475		5,031	51	444	53			5,475
90	Atrazine	1912-24-9		37	1			35	129	6	66	41
91	Avermectin B1	65195-55-3		4	0			4	160			4
92	Azobenzene	103-33-3		17	1			16	148	6	66	22
93	Barium cyanide	542-62-1		6				6	158			6
94	Baygon	114-26-1		106	0			99	87			99
95	Bayleton	43121-43-3		15	0			14	150			14
96	Baythroid	68359-37-5		50	0			47	119			47
97	Benefin	1861-40-1		16	0			15	149			15
98	Benomyl	17804-35-2		6	0			6	158			6
99	Benzaldehyde	100-52-7		101	0			94	90			94
100	Benzidine	92-87-5	1,114.24	23	4	6,662	19	22	142	24	63	6,708
101	Benzo [a] pyrene	50-32-8	1,312.45	41	729	7,847	5	38	126	4,442	3	12,328
102	Benzo(a)anthracene	56-55-3	1,057.96	33	529	6,325	27	31	133	3,224	8	9,580
103	Benzo(b)fluoranthene	205-99-2	1,266.55	25	549	7,572	6	23	141	3,346	6	10,941
104	Benzo(k)fluoranthene	207-08-9	981.26	24	216	5,867	40	22	142	1,316	17	7,205
105	Benzo[g,h,i]perylene	191-24-2		19				18	146			18
106	Benzotrichloride	98-07-7		3	0			3	161			3
107	Benzyl chloride	100-44-7		7	0			7	157			7
108	Beryllium and compounds	7440-41-7	1,046.12	379	11	6,255	29	354	56	67	56	6,676
109	beta-Chloronaphthalene	91-58-7		24	0			22	142			22

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
110	beta-He xachlorocyclohexane	319-85-7	1,060.22	29	58	6,339	25	27	137	353	36	6,719
111	Bidrin	141-66-2		2	0			2	162			2
112	Biphen thrin	82657-04-3		12	0			11	153			11
113	Bis(2-chloroethoxy)methane	111-91-1		14	1			13	151	6	66	19
114	Bis(2-chloroisopropyl) ether	108-60-1		14	1			13	151	6	66	19
115	Bis(chloroeth yl)ether	111-44-4	859.88	20	39	5,141	50	19	145	238	42	5,397
116	Bisphenol A	80-05-7		482	0			451	52			451
117	Bromochloromethane	74-97-5		55				51	116			51
118	Bromodichloromethane	75-27-4		50	281			47	119	1,712	14	1,759
119	Bromoform	75-25-2	643.53	68	21	3,848	98	64	106	128	49	4,039
120	Bromomethane	74-83-9		63	46			59	109	280	40	339
121	Bromotrichloromethane	75-62-7		1				1	163			1
122	Bromoxynil octanoate	1689-99-2		3	0			3	161			3
123	Butyl benzyl phthalate	85-68-7	659.38	1,070	17	3,942	93	1,000	36	104	52	5,046
124	Butylate	2008-41-5	578.43	5	0	3,458	121	5	159			3,463
125	Cacodylic acid	75-60-5	922.06	11	0	5,513	41	10	154			5,523
126	Cadmium	7440-43-9	1,324.22	1,970	110	7,917	4	1,842	24	670	27	10,429
127	Calcium cyanide	592-01-8		2	0			2	162			2
128	Caprolactam	105-60-2		23	0			22	142			22
129	Captan	133-06-2		10	0			9	155			9
130	Carbaryl	63-25-2	530.98	93	0	3,175	131	87	94			3,262
131	Carbofuran	1563-66-2		4	0			4	160			4
132	Carbon disulfide	75-15-0	702.55	40	4	4,200	89	37	127	24	63	4,262
133	Carbon tetrachloride	56-23-5	1,023.32	292	215	6,118	34	273	64	1,310	18	7,701
134	Carbonyl sulfide	463-58-1		4				4	160			4
135	Carboxin	5234-68-4		5	0			5	159			5
136	Chloramben	133-90-4		6	0			6	158			6
137	Chlordane (technical)	12789-03-6	602.62	1	0	3,603	110	1	163			3,604

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
138	Chlorine	7782-50-5	840.37	241	0	5,024	52	225	70			5,250
139	Chlorobenzene	108-90-7	819.69	213	85	4,901	62	199	74	518	31	5,618
140	Chlorobenzilate	510-15-6		12	0			11	153			11
141	Chlorodifluoromethane	75-45-6		774	0			724	43			724
142	Chlorothalonil	1897-45-6		205	0			192	75			192
143	Chlorpropham	101-21-3		8	0			7	157			7
144	Chlorpyrifos	2921-88-2	804.93	166	0	4,813	68	155	76			4,968
145	Chlorsulfuron	64902-72-3		2	0			2	162			2
146	Chromium (VI)	18540-29-9	1,149.98	147	19	6,875	12	137	79	116	50	7,129
147	Chromium III, insoluble salts	16065-83-1		118	0			110	83			110
148	Chrysene	218-01-9	802.10	34	117	4,796	71	32	132	713	26	5,540
149	cis-1,2-Dichloroethylene	156-59-2	533.15	27	197	3,188	129	25	139	1,200	20	4,413
150	Coke oven emissions	8007-45-2	807.07	77		4,825	67	72	102			4,897
151	Copper	7440-50-8	804.86	6,993	39	4,812	69	6,538	6	238	42	11,588
152	Copper cyanide	544-92-3		20	0			19	145			19
153	Creosote	8001-58-9	1,124.32	32		6,722	16	30	134			6,752
154	Cumene	98-82-8		1,632	6			1,526	28	37	61	1,562
155	Cyanazine	21725-46-2		4	0			4	160			4
156	Cyanide, free	57-12-5	1,099.48	48	0	6,574	20	45	121			6,618
157	Cyanogen	460-19-5		6	0			6	158			6
158	Cyclohexanone	108-94-1		2,829	0			2,645	13			2,645
159	Cyclohexylamine	108-91-8		154	0			144	78			144
160	Cypermethrin	52315-07-8		26	0			24	140			24
161	Dacthal	1861-32-1		20	0			19	145			19
162	Dalapon (sodium salt)	75-99-0		14	0			13	151			13
163	Decabromodiphenyl ether (DBDPE)	1163-19-5		56	0			52	115			52
164	delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30		6,208	30	28	136			6,236
165	di(2-ethylhexyl)Adipate	103-23-1	540.20	50	0	3,230	128	47	119			3,276

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
166	Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	337	5,495	42	1,226	32	2,054	12	8,774
167	Dibenzo(a,h)anthracene	53-70-3	1,165.88	23	457	6,971	9	22	142	2,785	10	9,777
168	Dibenzofuran	132-64-9	689.19	17		4,121	91	16	148			4,136
169	Dibromochloromethane	124-48-1	580.59	48	208	3,471	119	45	121	1,268	19	4,784
170	Dibutyl phthalate	84-74-2	1,007.49	1,132	1	6,024	36	1,058	33	6	66	7,088
171	Dicamba	1918-00-9		58	0			54	114			54
172	Dichlorodifluoromethane	75-71-8		953	5			891	39	30	62	921
173	Dichloromethane	75-09-2	888.96	4,136	302	5,315	44	3,867	9	1,840	13	11,022
174	Dichlorvos	62-73-7	601.64	49	0	3,597	113	46	120			3,643
175	Dieldrin	60-57-1	1,150.91	45	173	6,881	11	42	123	1,054	21	7,977
176	Diethyl phthalate	84-66-2		56	0			52	115			52
177	Diethyl sulfate	64-67-5		1				1	163			1
178	Dimethoate	60-51-5	602.61	11	0	3,603	110	10	154			3,613
179	Dimethyl sulfate	77-78-1		4	0			4	160			4
180	Dimethyl terephthalate (DMT)	120-61-6		2	0			2	162			2
181	Dimethylamine	124-40-3		38				36	128			36
182	Dinoseb	88-85-7		13	0			12	152			12
183	Diphenamid	957-51-7		3	0			3	161			3
184	Diphenylamine	122-39-4		123	0			115	82			115
185	Diquat	85-00-7		32	0			30	134			30
186	Disulfoton	298-04-4	1,058.85	25	0	6,331	26	23	141			6,354
187	Diuron	330-54-1	579.16	72	0	3,463	120	67	103			3,530
188	d-Limonene	5989-27-5		1,488				1,391	30			1,391
189	Dodine	2439-10-3		3	0			3	161			3
190	Endosulfan	115-29-7	1,004.65	3	0	6,007	38	3	161			6,009
191	Endothall	145-73-3		8	0			7	157			7
192	Endrin	72-20-8	1,048.57	58	1	6,269	28	54	114	6	66	6,329
193	Epichlorohydrin	106-89-8		559	0			523	50			523

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
194	Ethion	563-12-2	834.03	6	0	4,986	56	6	158			4,992
195	Ethyl acetate	141-78-6		4,385	0			4,100	8			4,100
196	Ethyl carbamate	51-79-6		12				11	153			11
197	Ethyl chloride	75-00-3	693.90	64	1	4,149	90	60	108	6	66	4,215
198	Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	0			3	161			3
199	Ethylbenzene	100-41-4	832.13	10,696	543	4,975	59	10,000	1	3,309	7	18,284
200	Ethylene diamine	107-15-3		377	0			352	57			352
201	Ethylene glycol	107-21-1		10,234	0			9,568	2			9,568
202	Ethylene thiourea	96-45-7		65	0			61	107			61
203	Ethyleneimine	151-56-4		5				5	159			5
204	Fenamiphos	22224-92-6		6	0			6	158			6
205	Fluorine, soluble fluoride	7782-41-4	613.28		0	3,667	103					3,667
206	Fluometuron	2164-17-2		1	0			1	163			1
207	Fluoranthene	206-44-0	812.40	32	0	4,857	63	30	134			4,887
208	Fluorene	86-73-7		19	5			18	146	30	62	48
209	Fluridone	59756-60-4		8	0			7	157			7
210	Flutolanil	66332-96-5		2	0			2	162			2
211	Fluvalinate	69409-94-5		2	0			2	162			2
212	Folpet	133-07-3		68	0			64	106			64
213	Fonofos	944-22-9		3	0			3	161			3
214	Formaldehyde	50-00-0	599.64		0	3,585	115					3,585
215	Formic acid	64-18-6		271	1			253	66	6	66	259
216	Furan	110-00-9		1	0			1	163			1
217	Furfural	98-01-1		61	0			57	111			57
218	gamma-Hexachlorocyclohexane	58-89-9	1,081.63	82	39	6,467	22	77	100	238	42	6,781
219	Glyphosate	1071-83-6		33	0			31	133			31
220	Heptachlor	76-44-8	1,072.67	54	72	6,413	24	50	117	439	33	6,903
221	Heptachlor epoxide	1024-57-3	1,027.12	45	104	6,141	33	42	123	634	28	6,817

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
222	Hexachloro benzene	118-74-1	838.34	88	33	5,012	54	82	97	201	45	5,296
223	Hexachlorobutadiene	87-68-3	1,129.63		85	6,754	15			518	31	7,272
224	Hexachloro ethane	67-72-1	653.10	39	23	3,905	95	36	128	140	47	4,081
225	Hexachlorophene	70-30-4		24	0			22	142			22
226	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	34	5,024	53	95	89	207	44	5,326
227	Hexazinone	51235-04-2		29	0			27	137			27
228	Hydrazine/hydrazine sulfate	302-01-2	864.41	69	5	5,168	46	65	105	30	62	5,263
229	Hydrogen chloride	7647-01-0		2,670				2,496	15			2,496
230	Hydrogen cyanide	74-90-8	803.08	32	0	4,801	70	30	134			4,831
231	Hydroquinone	123-31-9		2,337	0			2,185	19			2,185
232	Imazaquin	81335-37-7		2	0			2	162			2
233	Indeno[1,2,3-cd]pyrene	193-39-5	703.30	23	474	4,205	88	22	142	2,888	9	7,115
234	Iprodione	36734-19-7		14	0			13	151			13
235	Isobutyl alcohol	78-83-1		2,432	0			2,274	18			2,274
236	Isophorone	78-59-1		237	4			222	72	24	63	246
237	Isopropalin	33820-53-0		1	0			1	163			1
238	Isoxaben	82558-50-7		4	0			4	160			4
239	Linuron	330-55-2		1	0			1	163			1
240	Malathion	121-75-5		80	0			75	101			75
241	Maleic anhydride	108-31-6		21	0			20	144			20
242	Maleic hydrazide	123-33-1		1	0			1	163			1
243	Maneb	12427-38-2		6	0			6	158			6
244	Manganese	7439-96-5	807.90	7,411	0	4,830	66	6,929	5			11,759
245	Mercuric chloride	7487-94-7	601.45	50	0	3,596	114	47	119			3,643
246	Mercury, elemental	7439-97-6	1,504.69	1,588	160	8,996	2	1,485	29	975	23	11,456
247	Merphos	150-50-5		6	0			6	158			6
248	Merphos oxide	78-48-8	797.88	2	0	4,770	72	2	162			4,772
249	Metalaxyl	57837-19-1		10	0			9	155			9

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
250	Methacrylonitrile	126-98-7		2	2			2	162	12	65	14
251	Methanol	67-56-1		7,659	0			7,161	4			7,161
252	Methomyl	16752-77-5		22	0			21	143			21
253	Methoxychlor	72-43-5	994.47	63	0	5,946	39	59	109			6,005
254	Methyl acrylate	96-33-3		102	0			95	89			95
255	Methyl chlorocarbonate	79-22-1		4				4	160			4
256	Methyl parathion	298-00-0	545.83	7	0	3,263	127	7	157			3,270
257	Methyl tert-butyl ether	1634-04-4		742	110			694	44	670	27	1,364
258	Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	0			993	37			993
259	Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	0			561	47			561
260	Metolachlor	51218-45-2		9	0			8	156			8
261	Metribuzin	21087-64-9		16	0			15	149			15
262	Molinate	2212-67-1		5	0			5	159			5
263	Molybdenum	7439-98-7		3,186	19			2,979	12	116	50	3,094
264	m-Phenylenediamine	108-45-2		89	0			83	96			83
265	N,N-Dimethylaniline	121-69-7		68	0			64	106			64
266	N,N-Dimethylformamide	68-12-2	578.23	363	0	3,457	122	339	59			3,796
267	Naled	300-76-5	602.32	18	0	3,601	112	17	147			3,618
268	Naphthalene	91-20-3	896.67	1,635	818	5,361	43	1,529	27	4,985	2	11,874
269	Napropamide	15299-99-7		2	0			2	162			2
270	n-Butanol	71-36-3		6,253	0			5,846	7			5,846
271	n-Heptane	142-82-5		2,116				1,978	21			1,978
272	Nickel	7440-02-0	1,005.40	7,850	0	6,011	37	7,339	3			13,350
273	Nitrapyrin	1929-82-4		2				2	162			2
274	Nitrate	14797-55-8	610.66	2	0	3,651	106	2	162			3,653
275	Nitric Oxide	10102-43-9		43				40	125			40
276	Nitrite	14797-65-0	612.64		0	3,663	104					3,663
277	Nitrobenzene	98-95-3		37	39			35	129	238	42	272

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
278	Nitroguanidine	556-88-7		5	0			5	159			5
279	N-Nitrosodiethanolamine	1116-54-7		4	0			4	160			4
280	N-Nitrosodiethylamine	55-18-5		1	2			1	163	12	65	13
281	N-Nitrosodimethylamine	62-75-9	650.71	16	22	3,890	96	15	149	134	48	4,039
282	N-Nitroso-di-n-butylamine	924-16-3		2	1			2	162	6	66	8
283	N-Nitroso-di-N-propylamine	621-64-7	811.05	23	60	4,849	64	22	142	366	35	5,236
284	N-Nitrosodiphenylamine	86-30-6	624.79	29	14	3,735	100	27	137	85	55	3,848
285	N-Nitroso-N-methylethylamine	10595-95-6		1	1			1	163	6	66	7
286	N-Nitrosopyrrolidine	930-55-2		1	0			1	163			1
287	Nonabromodiphenyl ether	63936-56-1		3				3	161			3
288	Norflurazon	27314-13-2		3	0			3	161			3
289	o-Chlorotoluene	95-49-8		94	0			88	93			88
290	Octabromodiphenyl ether	32536-52-0		2	0			2	162			2
291	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0		46	0			43	122			43
292	o-Dinitrobenzene	528-29-0			34					207	44	207
293	Oryzalin	19044-88-3		13	0			12	152			12
294	Oxadiazon	19666-30-9		14	0			13	151			13
295	Oxamyl	23135-22-0		5	0			5	159			5
296	Oxyfluorfen	42874-03-3		4	0			4	160			4
297	p,p'-Dibromodiphenyl ether	2050-47-7		2				2	162			2
298	p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	38	6,665	18	35	129	232	43	6,931
299	p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	1,132.49	37	45	6,771	14	35	129	274	41	7,080
300	p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	15	7,135	7	107	84	91	54	7,333
301	Paclobutrazol	76738-62-0		7	0			7	157			7
302	Paraquat	1910-42-5		8	0			7	157			7
303	Parathion	56-38-2	784.14	8	0	4,688	73	7	157	0		4,696
304	p-Chloroaniline	106-47-8		8	34			7	157	207	44	215
305	Pendimethalin	40487-42-1		32	0			30	134			30

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
306	Pentabromodiphenyl ether	32534-81-9		14	0			13	151			13
307	Pentachlorobenzene	608-93-5	753.58	4	0	4,505	78	4	160			4,509
308	Pentachloronitrobenzene	82-68-8		12	0			11	153			11
309	Pentachlorophenol	87-86-5	1,028.01	110	60	6,146	32	103	85	366	35	6,615
310	Pentafluoroethane	354-33-6		86	0			80	98			80
311	Permethrin	52645-53-1		103	0			96	88			96
312	Phenanthrene	85-01-8	597.68	36		3,573	117	34	130			3,607
313	Phenylmercuric acetate	62-38-4		240	0			224	71			224
314	Phosmet	732-11-6		5	0			5	159			5
315	Phosphine	7803-51-2	559.74	16	0	3,347	125	15	149			3,362
316	Phosphoric acid	7664-38-2		2,437				2,278	17			2,278
317	Picloram	1918-02-1		10	0			9	155			9
318	p-Nitrophenol	100-02-7	567.79	55		3,395	124	51	116			3,446
319	Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	68	8,166	3	2,609	14	37	61	10,812
320	Potassium cyanide	151-50-8		161	0			151	77			151
321	Potassium silver cyanide	506-61-6		14	0			13	151			13
322	Prometon	1610-18-0		28	0			26	138			26
323	Prometryn	7287-19-6		4	0			4	160			4
324	Pronamide	23950-58-5		8	0			7	157			7
325	Propachlor	1918-16-7		14	0			13	151			13
326	Propargyl alcohol	107-19-7		17	0			16	148			16
327	Propazine	139-40-2		3	0			3	161			3
328	Propiconazole	60207-90-1		4	0			4	160			4
329	Propylene glycol	57-55-6		4,063	0			3,799	10			3,799
330	Propylene glycol monoethyl ether	52125-53-8		6				6	158			6
331	Propylene glycol monomethyl ether	107-98-2		2,048	0			1,915	23			1,915
332	Propylene oxide	75-56-9		246	0			230	69			230
333	Pydrin	51630-58-1		14	0			13	151			13

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
334 P	ylene	129-00-0	577.95	30	2	3,455	123	28	136	12	65	3,496
335	Pyridine	110-86-1		83	0			78	99			78
336	Quinone	106-51-4		11				10	154			10
337	Radium 226,228	7440-14-4	828.07			4,951	60					4,951
338	Resmethrin	10453-86-8		86	0			80	98			80
339	Rotenone	83-79-4		6	0			6	158			6
340	Selenious acid	7783-00-8		110	0			103	85			103
341	Selenium and compounds	7782-49-2	778.98	296	29	4,657	75	277	63	177	46	5,111
342	Selenium sulfide	7446-34-6		27	0			25	139			25
343	Sethoxydim	74051-80-2		3	0			3	161			3
344	S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	0			4	160			4
345	Silver	7440-22-4	612.19	2,491	17	3,660	105	2,329	16	104	52	6,093
346	Silver cyanide	506-64-9		29	0			27	137			27
347	Simazine	122-34-9		46	0			43	122			43
348	Sodium azide	26628-22-8		1,100	0			1,028	34			1,028
349	Sodium cyanide	143-33-9		90	0			84	95			84
350	Sodium diethyldithiocarbamate	148-18-5		7	0			7	157			7
351	Sodium fluoroacetate	62-74-8		2	0			2	162			2
352	Strychnine	57-24-9		7	0			7	157			7
353	Styrene	100-42-5	532.70	1,646	1	3,185	130	1,539	26	6	66	4,730
354	Systhane	88671-89-0		1	0			1	163			1
355	t-Butyl chloride	507-20-0		1				1	163			1
356	Tebuthiuron	34014-18-1		17	0			16	148			16
357	technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	0	4,633	76	4	160			4,637
358	Terbacil	5902-51-2		3	0			3	161			3
359	Terbutryn	886-50-0		3	0			3	161			3
360 T	tetrachloroethylene	127-18-4	1,080.43	929	565	6,460	23	869	40	3,443	5	10,771
361	Tetrachlorovinphos	961-11-5		8	0			7	157			7

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
362	Tetraethyl lead	78-00-2		99	0			93	91			93
363	Tetraethyldithiopyrophosphate	3689-24-5		4	0			4	160			4
364	Thallic oxide	1314-32-5		6				6	158			6
365	Thallium (I) sulfate	7446-18-6		1	0			1	163			1
366	Thallium acetate	563-68-8		4	0			4	160			4
367	Thallium carbonate	6533-73-9		1	0			1	163			1
368	Thallium chloride	7791-12-0		1	0			1	163			1
369	Thallium nitrate	10102-45-1		27	0			25	139			25
370	Thiobencarb	28249-77-6		1	0			1	163			1
371	Thiram	137-26-8		93	0			87	94			87
372	Toxaphene	8001-35-2	1,086.65	24	9	6,497	21	22	142	55	58	6,574
373	Tralomeethrin	66841-25-6		6	0			6	158			6
374	trans-1,2-Dichloroethylene	156-60-5	704.04	136	57	4,209	87	127	81	347	37	4,684
375	Triallate	2303-17-5		1	0			1	163			1
376	Tributyltin oxide	56-35-9		106	0			99	87			99
377	Trichloroacetic acid	76-03-9		62				58	110			58
378	Trichloroethylene	79-01-6	1,154.73	568	631	6,904	10	531	49	3,845	4	11,280
379	Trichlorofluoromethane	75-69-4		535	3			500	51	18	64	518
380	Tricresol	1319-77-3	602.74	272	0	3,604	109	254	65			3,858
381	Triethylamine	121-44-8		459	0			429	54			429
382	Triethylene glycol monobutyl ether	143-22-6		60				56	112			56
383	Trifluralin	1582-09-8	770.12	27	0	4,604	77	25	139			4,630
384	Uranium, natural	7440-61-1	833.41	59	0	4,983	58	55	113			5,038
385	Vanadium pentoxide	1314-62-1		587	0			549	48			549
386	Vernam	1929-77-7		7	0			7	157			7
387	Vinclozolin	50471-44-8		4	0			4	160			4
388	Vinyl acetate	108-05-4		953	0			891	39			891
389	Warfarin	81-81-2		9	0			8	156			8

TABLE 1b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank	
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
390	White phosphorus	7723-14-0	1,144.77	1,054	0	6,844	13	985	38			7,830
391	Zinc cyanide	557-21-1		9	0			8	156			8
392	Zinc phosphide	1314-84-7		19	0			18	146			18
393	Zineb	12122-67-7		3	0			3	161			3

* 0 = no RSL exceedances; blank = no RSL

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TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
1	Ethylbenzene	100-41-4	832.13	10,696	543	4,975	59	10,000	1	3,309	7	18,284	13,309
2	Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,641	10,000	1	1,570	25	10,000	1	21,570	11,570
3	Ethylene glycol	107-21-1		10,234	0			9,568	2			9,568	9,568
4	Nickel	7440-02-0	1,005.40	7,850	0	6,011	37	7,339	3			13,350	7,339
5	Methanol	67-56-1		7,659	0			7,161	4			7,161	7,161
6	Manganese	7439-96-5	807.90	7,411	0	4,830	66	6,929	5			11,759	6,929
7	Copper	7440-50-8	804.86	6,993	39	4,812	69	6,538	6	238	42	11,588	6,776
8	Naphthalene	91-20-3	896.67	1,635	818	5,361	43	1,529	27	4,985	2	11,874	6,513
9	n-Butanol	71-36-3		6,253	0			5,846	7			5,846	5,846
10	Dichloromethane	75-09-2	888.96	4,136	302	5,315	44	3,867	9	1,840	13	11,022	5,707
11	Benzo [a] pyrene	50-32-8	1,312.45	41	729	7,847	5	38	126	4,442	3	12,328	4,481
12	Trichloroethylene	79-01-6	1,154.73	568	631	6,904	10	531	49	3,845	4	11,280	4,376
13	Tetrachloroethylene	127-18-4	1,080.43	929	565	6,460	23	869	40	3,443	5	10,771	4,312
14	Ethyl acetate	141-78-6		4,385	0			4,100	8			4,100	4,100
15	Propylene glycol	57-55-6		4,063	0			3,799	10			3,799	3,799
16	Benzo(b)fluoranthene	205-99-2	1,266.55	25	549	7,572	6	23	141	3,346	6	10,941	3,369
17	1,1,1-Trichloroethane	71-55-6	833.81	3,552	7	4,985	57	3,321	11	43	60	8,349	3,364
18	Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	337	5,495	42	1,226	32	2,054	12	8,774	3,279
19	Benzo(a)anthracene	56-55-3	1,057.96	33	529	6,325	27	31	133	3,224	8	9,580	3,254
20	Molybdenum	7439-98-7		3,186	19			2,979	12	116	50	3,094	3,094
21	Indeno[1,2,3-cd]pyrene	193-39-5	703.30	23	474	4,205	88	22	142	2,888	9	7,115	2,910
22	Dibenzo(a,h)anthracene	53-70-3	1,165.88	23	457	6,971	9	22	142	2,785	10	9,777	2,806
23	Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	6	8,166	3	2,609	14	37	61	10,812	2,646
24	Cyclohexanone	108-94-1		2,829	0			2,645	13			2,645	2,645
25	1,2-Dichloroethane	107-06-2	863.99	440	359	5,166	47	411	55	2,188	11	7,765	2,599

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
26	Cadmium	7440-43-9	1,324.22	1,970	110	7,917	4	1,842	24	670	27	10,429	2,512
27	Hydrogen chloride	7647-01-0		2,670				2,496	15			2,496	2,496
28	Mercury, elemental	7439-97-6	1,504.69	1,588	160	8,996	2	1,485	29	975	23	11,456	2,460
29	Silver	7440-22-4	612.19	2,491	17	3,660	105	2,329	16	104	52	6,093	2,433
30	Phosphoric acid	7664-38-2		2,437				2,278	17			2,278	2,278
31	Isobutyl alcohol	78-83-1		2,432	0			2,274	18			2,274	2,274
32	Hydroquinone	123-31-9		2,337	0			2,185	19			2,185	2,185
33	1,6-Hexamethylene diisocyanate	822-06-0		2,283	0			2,134	20			2,134	2,134
34	n-Heptane	142-82-5		2,116				1,978	21			1,978	1,978
35	Antimony	7440-36-0	605.37	2,105	0	3,619	107	1,968	22			5,587	1,968
36	Propylene glycol monomethyl ether	107-98-2		2,048	0			1,915	23			1,915	1,915
37	1,4-Dichlorobenzene	106-46-7	737.32	246	276	4,408	80	230	69	1,682	15	6,320	1,912
38	Bromodichloromethane	75-27-4		50	281			47	119	1,712	14	1,759	1,759
39	Carbon tetrachloride	56-23-5	1,023.32	292	215	6,118	34	273	64	1,310	18	7,701	1,583
40	Cumene	98-82-8		1,632	6			1,526	28	37	61	1,562	1,562
41	Styrene	100-42-5	532.70	1,646	1	3,185	130	1,539	26	6	66	4,730	1,545
42	1,1,2-Trichloroethane	79-00-5	724.96	51	226	4,334	83	48	118	1,377	16	5,759	1,425
43	d-Limonene	5989-27-5		1,488				1,391	30			1,391	1,391
44	Methyl tert-butyl ether	1634-04-4		742	110			694	44	670	27	1,364	1,364
45	Ammonia	7664-41-7	745.55	1,453		4,457	79	1,358	31			5,816	1,358
46	Benzo(k)fluoranthene	207-08-9	981.26	24	216	5,867	40	22	142	1,316	17	7,205	1,339
47	Dibromochloromethane	124-48-1	580.59	48	208	3,471	119	45	121	1,268	19	4,784	1,312
48	cis-1,2-Dichloroethylene	156-59-2	533.15	27	197	3,188	129	25	139	1,200	20	4,413	1,226
49	Butyl benzyl phthalate	85-68-7	659.38	1,070	17	3,942	93	1,000	36	104	52	5,046	1,104
50	Dieldrin	60-57-1	1,150.91	45	173	6,881	11	42	123	1,054	21	7,977	1,096
51	1,1-Dichloroethane	75-34-3	736.23	45	168	4,402	81	42	123	1,024	22	5,468	1,066
52	Dibutyl phthalate	84-74-2	1,007.49	1,132	1	6,024	36	1,058	33	6	66	7,088	1,064
53	Sodium azide	26628-22-8		1,100	0			1,028	34			1,028	1,028

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
54	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	0			1,016	35			1,016	1,016
55	Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	0			993	37			993	993
56	White phosphorus	7723-14-0	1,144.77	1,054	0	6,844	13	985	38			7,830	985
57	Dichlorodifluoromethane	75-71-8		953	5			891	39	30	62	921	921
58	Vinyl acetate	108-05-4		953	0			891	39			891	891
59	1,2-Dichloropropane	78-87-5		51	132			48	118	804	24	852	852
60	Antimony trioxide	1309-64-4		906	0			847	41			847	847
61	1,1,2,2-Tetrachloroethane	79-34-5	782.15	43	127	4,676	74	40	25 774		25	5,490	814
62	Chrysene	218-01-9	802.10	34	117	4,796	71	32	32 713		26	5,540	745
63	1,1,1,2-Tetrafluoroethane	811-97-2		775	0			725	42			725	725
64	Chlorodifluoromethane	75-45-6		774	0			724	43			724	724
65	1,4-Dioxane	123-91-1	616.29	623	23	3,685	102 582		46 140		47	4,407	723
66	Chlorobenzene	108-90-7	819.69	213	85	4,901	62 199		74 518		31	5,618	717
67	Heptachlor epoxide	1024-57-3	1,027.12	45	104	6,141	33	42	23 634		28	6,817	676
68	2-Ethoxyethanol	110-80-5		688	0			643	45			643	643
69	Aldrin	309-00-2	1,117.22	44	97	6,680	17	41	24 591		29	7,312	632
70	Arochlor 1254	11097-69-1	1,182.63	70	92	7,071	8	65	04 561		30	7,697	626
71	Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	0			561	47			561	561
72	Vanadium pentoxide	1314-62-1		587	0			549	48			549	549
73	2-Methoxyethanol	109-86-4		559	0			523	50			523	523
74	Epichlorohydrin	106-89-8		559	0			523	50			523	523
75	Trichlorofluoromethane	75-69-4		535	3			500	51	18	64	518	518
76	Hexachlorobutadiene	87-68-3	1,129.63		85	6,754	15			518	31	7,272	518
77	alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	80	4,840	65	29	135 488		32	5,357	516
78	1,2-Dibromo-3-chloropropane	96-12-8	1,035.55	30	80	6,191	31	28	136 488		32	6,707	516
79	1,2,3-Trichloropropane	96-18-4		20	80			19	145	488	32	506	506
80	Heptachlor	76-44-8	1,072.67	54	72	6,413	24	50	117 439		33	6,903	489

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
81	trans-1,2-Dichloroethylene	156-60-5	704.04	136	57	4,209	87	127	81	347	37	4,684	474
82	Pentachlorophenol	87-86-5	1,028.01	110	60	6,146	32	103	85	366	35	6,615	468
83	Selenium and compounds	7782-49-2	778.98	296	29	4,657	75	277	63	177	46	5,111	453
84	Bisphenol A	80-05-7		482	0			451	52			451	451
85	Asbestos	1332-21-4	841.54	475		5,031	51	444	53			5,475	444
86	1,2,4-Trichlorobenzene	120-82-1	647.30	56	63	3,870	97	52	15	384	34	4,306	436
87	Triethylamine	121-44-8		459	0			429	54			429	429
88	Beryllium and compounds	7440-41-7	1,046.12	379	11	6,255	29	354	56	67	56	6,676	421
89	N-Nitroso-di-N-propylamine	621-64-7	811.05	23	60	4,849	64	22	142	366	35	5,236	387
90	beta-Hexachlorocyclohexane	319-85-7	1,060.22	29	58	6,339	25	27	137	353	36	6,719	381
91	1,2-Dichlorobenzene	95-50-1	704.91	249	22	4,215	86	233	68	134	48	4,581	367
92	2,4-Dinitrotoluene	121-14-2	837.88	43	53	5,010	55	40	125	323	39	5,373	363
93	1,1,1,2-Tetrachloroethane	630-20-6		19	55			18	146	335	38	353	353
94	Ethylene diamine	107-15-3		377	0			352	57			352	352
95	Ammonium acetate	631-61-8		368				344	58			344	344
96	N,N-Dimethylformamide	68-12-2	578.23	363	0	3,457	122	339	59			3,796	339
97	Bromomethane	74-83-9		63	46			59	109	280	40	339	339
98	gamma-Hexachlorocyclohexane	58-89-9	1,081.63	82	39	6,467	22	77	100	238	42	6,781	314
99	p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	1,132.49	37	45	6,771	14	35	129	274	41	7,080	309
100	Acetaldehyde	75-07-0		323	1			302	60	6	66	308	308
101	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	34	5,024	53	95	89	207	44	5,326	303
102	Acrylonitrile	107-13-1	528.28	265	8	3,158	132	248	67	49	59	3,455	297
103	Hexachlorobenzene	118-74-1	838.34	88	33	5,012	54	82	97	201	45	5,296	283
104	Acrylamide	79-06-1		303	0			283	61			283	283
105	1,2-Epoxybutane	106-88-7		300	0			280	62	0		280	280
106	Nitrobenzene	98-95-3		37	39			35	129	238	42	272	272
107	p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	38	6,665	18	35	129	232	43	6,931	266
108	Formic acid	64-18-6		271	1			253	66	6	66	259	259

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
109	Bis(chloroethyl)ether	111-44-4	859.88	20	39	5,141	50	19	145 238		42	5,397	256
110	Tricresol	1319-77-3	602.74	272	0	3,604	109	254	65			3,858	254
111	Chromium (VI)	18540-29-9	1,149.98	147	19	6,875	12	137	79	116	50	7,129	253
112	Isophorone	78-59-1		237	4			222	72	24	63	246	246
113	Propylene oxide	75-56-9		246	0			230	69			230	230
114	Chlorine	7782-50-5	840.37	241	0	5,024	52	225	70			5,250	225
115	Phenylmercuric acetate	62-38-4		240	0			224	71			224	224
116	Acrylic acid	79-10-7		234	0			219	73			219	219
117	p-Chloroaniline	106-47-8		8	34			7	157	207	44	215	215
118	o-Dinitrobenzene	528-29-0			34			0		207	44	207	207
119	p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	15	7,135	7	107	84 91 54			7,333	198
120	Chlorothalonil	1897-45-6		205	0			192	75			192	192
121	Bromoform	75-25-2	643.53	68	21	3,848	98	64	106 128		49	4,039	192
122	Hexachloroethane	67-72-1	653.10	39	23	3,905	95	36	128 140		47	4,081	177
123	2,4,6-Trichlorophenol	88-06-2	863.71	35	22	5,164	48	33	131 134		48	5,331	167
124	2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	18			51	116	110	51	161	161
125	Chlorpyrifos	2921-88-2	804.93	166	0	4,813	68	155	76			4,968	155
126	Potassium cyanide	151-50-8		161	0			151	77			151	151
127	N-Nitrosodimethylamine	62-75-9	650.71	16	22	3,890	96	15	149 134		48	4,039	149
128	Cyclohexylamine	108-91-8		154	0			144	78			144	144
129	4-Methylphenol	106-44-5	707.83	39	16	4,232	85	36	128 98 53			4,366	134
130	Aniline	62-53-3		140	0			131	80			131	131
131	Diphenylamine	122-39-4		123	0			115	82			115	115
132	2-Methylphenol	95-48-7	658.66	103	3	3,938	94	96 88 18 64				4,053	115
133	N-Nitrosodiphenylamine	86-30-6	624.79	29	14	3,735	100	27	137 85 55			3,848	112
134	Chromium III, insoluble salts	16065-83-1		118	0			110	83			110	110
135	Selenious acid	7783-00-8		110	0			103	85			103	103
136	2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	0	3,494	118	102	86			3,596	102

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
137	Arochlor 1016	12674-11-2	1,014.33	41	10	6,064	35 38		126 61	57		6,164	99
138	Baygon	114-26-1		106	0			99	87			99	99
139	Tributyltin oxide	56-35-9		106	0			99	87			99	99
140	Permethrin	52645-53-1		103	0			96	88			96	96
141	Methyl acrylate	96-33-3		102	0			95	89			95	95
142	Hydrazine/hydrazine sulfate	302-01-2	864.41	69	5	5,168	46 65		105 30	62		5,263	95
143	Benzaldehyde	100-52-7		101	0			94	90			94	94
144	Tetraethyl lead	78-00-2		99	0			93	91			93	93
145	1,1-Biphenyl	92-52-4		98	0			92	92			92	92
146	o-Chlorotoluene	95-49-8		94	0			88	93			88	88
147	Carbaryl	63-25-2	530.98	93	0	3,175	131 87	94				3,262	87
148	Thiram	137-26-8		93	0			87	94			87	87
149	2,4-Dinitrophenol	51-28-5	860.45	34	9	5,144	49 32		132 55	58		5,231	87
150	2,4,6-Trinitrotoluene	118-96-7	883.59	51	6	5,283	45 48		118 37	61		5,367	84
151	Sodium cyanide	143-33-9		90	0			84	95			84	84
152	m-Phenylenediamine	108-45-2		89	0			83	96			83	83
153	Pentafluoroethane	354-33-6		86	0			80	98			80	80
154	Resmethrin	10453-86-8		86	0			80	98			80	80
155	Pyridine	110-86-1		83	0			78	99			78	78
156	Toxaphene	8001-35-2	1,086.65	24	9	6,497	21 22		142 55	58		6,574	77
157	Malathion	121-75-5		80	0			75	101			75	75
158	2,4-Dimethylphenol	105-67-9	685.76	26	8	4,100	92 24		140 49	59		4,173	73
159	Amdro	67485-29-4		77	0			72	102			72	72
160	Coke oven emissions	8007-45-2	807.07	77		4,825	67	72	102			4,897	72
161	Diuron	330-54-1	579.16	72	0	3,463	120	67	103			3,530	67
162	Ethyl chloride	75-00-3	693.90	64	1	4,149	90 60		108	6 66		4,215	66
163	Folpet	133-07-3		68	0			64	106			64	64
164	N,N-Dimethylaniline	121-69-7		68	0			64	106			64	64

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
165	Carbon disulfide	75-15-0	702.55	40	4	4,200	89	37	127	24	63	4,262	62
166	2,6-Dinitrotoluene	606-20-2	555.20	20	7	3,319	126	19	145	43	60	3,381	61
167	Ethylene thiourea	96-45-7		65	0			61	107			61	61
168	Endrin	72-20-8	1,048.57	58	1	6,269	28	54	114	6	66	6,329	60
169	Methoxychlor	72-43-5	994.47	63	0	5,946	39	59	109			6,005	59
170	1,3-Dichlorobenzene	541-73-1	631.41	62		3,775	99	58	110			3,833	58
171	Trichloroacetic acid	76-03-9		62				58	110			58	58
172	Furfural	98-01-1		61	0			57	111			57	57
173	Triethylene glycol monobutyl ether	143-22-6		60				56	112			56	56
174	Uranium, natural	7440-61-1	833.41	59	0	4,983	58	55	113			5,038	55
175	Dicamba	1918-00-9		58	0			54	114			54	54
176	Decabromodiphenyl ether (DBDPE)	1163-19-5		56	0			52	115			52	52
177	Diethyl phthalate	84-66-2		56	0			52	115			52	52
178	Bromochloromethane	74-97-5		55				51	116			51	51
179	p-Nitrophenol	100-02-7	567.79	55		3,395	124	51	116			3,446	51
180	Fluorene	86-73-7		19	5			18	146	30	62	48	48
181	Acenaphthene	83-32-9	731.25	37	2	4,372	82	35	129	12	65	4,419	47
182	Baythroid	68359-37-5		50	0			47	119			47	47
183	di(2-ethylhexyl)Adipate	103-23-1	540.20	50	0	3,230	128	47	119			3,276	47
184	Mercuric chloride	7487-94-7	601.45	50	0	3,596	114	47	119			3,643	47
185	Benzidine	92-87-5	1,114.24	23	4	6,662	19	22	142	24	63	6,708	46
186	Dichlorvos	62-73-7	601.64	49	0	3,597	113	46	120			3,643	46
187	Cyanide, free	57-12-5	1,099.48	48	0	6,574	20	45	121			6,618	45
188	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0		46	0			43	122			43	43
189	Simazine	122-34-9		46	0			43	122			43	43
190	Atrazine	1912-24-9		37	1			35	129	6	66	41	41
191	Pyrene	129-00-0	577.95	30	2	3,455	123	28	136	12	65	3,496	40
192	2-Nitropropane	79-46-9		43	0			40	125			40	40

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
193	3-Methylphenol	108-39-4		43	0			40	125			40	40
194	Nitric Oxide	10102-43-9		43				40	125			40	40
195	2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	5	0		7	157	30	62	37	37
196	Anthracene	120-12-7		38	0			36	128			36	36
197	Dimethylamine	124-40-3		38				36	128			36	36
198	2-Chlorophenol	95-57-8	599.62	36	0	3,585	116	34	130			3,619	34
199	Phenanthrene	85-01-8	597.68	36		3,573	117	34	130			3,607	34
200	Glyphosate	1071-83-6		33	0			31	133			31	31
201	Creosote	8001-58-9	1,124.32	32		6,722	16	30	134			6,752	30
202	Diquat	85-00-7		32	0			30	134			30	30
203	Fluoranthene	206-44-0	812.40	32	0	4,857	63	30	134			4,887	30
204	Hydrogen cyanide	74-90-8	803.08	32	0	4,801	70	30	134			4,831	30
205	Pendimethalin	40487-42-1		32	0			30	134			30	30
206	Acephate	30560-19-1		30	0			28	136			28	28
207	delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30		6,208	30	28	136			6,236	28
208	Hexazinone	51235-04-2		29	0			27	137			27	27
209	Silver cyanide	506-64-9		29	0			27	137			27	27
210	Prometon	1610-18-0		28	0			26	138			26	26
211	Selenium sulfide	7446-34-6		27	0			25	139			25	25
212	Thallium nitrate	10102-45-1		27	0			25	139			25	25
213	Trifluralin	1582-09-8	770.12	27	0	4,604	77	25	139			4,630	25
214	Cypermethrin	52315-07-8		26	0			24	140			24	24
215	Disulfoton	298-04-4	1,058.85	25	0	6,331	26	23	141			6,354	23
216	beta-Chloronaphthalene	91-58-7		24	0			22	142			22	22
217	Hexachlorophene	70-30-4		24	0			22	142			22	22
218	Azobenzene	103-33-3		17	1			16	148	6	66	22	22
219	Caprolactam	105-60-2		23	0			22	142			22	22
220	Methomyl	16752-77-5		22	0			21	143			21	21

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
221	2,4,5-Trichlorophenol	95-95-4	604.83	21	0	3,616	108	20	144			3,636	20
222	Maleic anhydride	108-31-6		21	0			20	144			20	20
223	Acetophenone	98-86-2		14	1			13	151	6	66	19	19
224	Bis(2-chloroethoxy)methane	111-91-1		14	1			13	151	6	66	19	19
225	Bis(2-chloroisopropyl) ether	108-60-1		14	1			13	151	6	66	19	19
226	Acenaphthylene	208-96-8		20				19	145			19	19
227	Copper cyanide	544-92-3		20	0			19	145			19	19
228	Dacthal	1861-32-1		20	0			19	145			19	19
229	2,4-Dichlorophenol	120-83-2	616.45		3	3,686	101			18	64	3,704	18
230	Alachlor	15972-60-8		19	0			18	146			18	18
231	Aluminum phosphide	20859-73-8		19	0			18	146			18	18
232	Benzo[g,h,i]perylene	191-24-2		19				18	146			18	18
233	Zinc phosphide	1314-84-7		19	0			18	146			18	18
234	Naled	300-76-5	602.32	18	0	3,601	112	17	147			3,618	17
235	2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	0			16	148			16	16
236	2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	0			16	148			16	16
237	Dibenzofuran	132-64-9	689.19	17		4,121	91	16	148			4,136	16
238	Propargyl alcohol	107-19-7		17	0			16	148			16	16
239	Tebuthiuron	34014-18-1		17	0			16	148			16	16
240	4-Aminopyridine	504-24-5		16				15	149			15	15
241	Benefin	1861-40-1		16	0			15	149			15	15
242	Metribuzin	21087-64-9		16	0			15	149			15	15
243	Phosphine	7803-51-2	559.74	16	0	3,347	125	15	149			3,362	15
244	Methacrylonitrile	126-98-7		2	2			2	162	12	65	14	14
245	Bayleton	43121-43-3		15	0			14	150	0		14	14
246	N-Nitrosodiethylamine	55-18-5		1	2			1	163	12	65	13	13
247	1-Chlorobutane	109-69-3		14	0			13	151			13	13
248	3,3-Dimethylbenzidine	119-93-7		14	0			13	151			13	13

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
249	Dalapon (sodium salt)	75-99-0		14	0			13	151			13	13
250	Iprodione	36734-19-7		14	0			13	151			13	13
251	Oxadiazon	19666-30-9		14	0			13	151			13	13
252	Pentabromodiphenyl ether	32534-81-9		14	0			13	151			13	13
253	Potassium silver cyanide	506-61-6		14	0			13	151			13	13
254	Propachlor	1918-16-7		14	0			13	151			13	13
255	Pydrin	51630-58-1		14	0			13	151			13	13
256	4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	0			12	152			12	12
257	Dinoseb	88-85-7		13	0			12	152			12	12
258	Oryzalin	19044-88-3		13	0			12	152			12	12
259	2,6-Dimethylphenol	576-26-1		12	0			11	153			11	11
260	Biphenrin	82657-04-3		12	0			11	153			11	11
261	Chlorobenzilate	510-15-6		12	0			11	153			11	11
262	Ethyl carbamate	51-79-6		12				11	153			11	11
263	Pentachloronitrobenzene	82-68-8		12	0			11	153			11	11
264	Arsine	7784-42-1	602.42	11		3,602	111	10	154			3,612	10
265	Cacodylic acid	75-60-5	922.06	11	0	5,513	41	10	154			5,523	10
266	Dimethoate	60-51-5	602.61	11	0	3,603	110	10	154			3,613	10
267	Quinone	106-51-4		11				10	154			10	10
268	2-Chloroacetophenone	532-27-4		10				9	155			9	9
269	4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	0			9	155			9	9
270	Captan	133-06-2		10	0			9	155			9	9
271	Metalaxyl	57837-19-1		10	0			9	155			9	9
272	Picloram	1918-02-1		10	0			9	155			9	9
273	Aluminum sulfamate	7773-06-0		9	0			8	156			8	8
274	Metolachlor	51218-45-2		9	0			8	156			8	8
275	Warfarin	81-81-2		9	0			8	156			8	8
276	Zinc cyanide	557-21-1		9	0			8	156			8	8

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
277	N-Nitroso-di-n-butylamine	924-16-3		2	1			2	162	6	66	8	8
278	2,4-Diaminotoluene	95-80-7		8	0			7	157			7	7
279	Chlorpropham	101-21-3		8	0			7	157			7	7
280	Endothall	145-73-3		8	0			7	157			7	7
281	Fluridone	59756-60-4		8	0			7	157			7	7
282	Paraquat	1910-42-5		8	0			7	157			7	7
283	Parathion	56-38-2	784.14	8	0	4,688	73	7	157			4,696	7
284	Pronamide	23950-58-5		8	0			7	157			7	7
285	Tetrachlorovinphos	961-11-5		8	0			7	157			7	7
286	N-Nitroso-N-methylethylamine	10595-95-6		1	1			1	163	6	66	7	7
287	1,3,5-Trinitrobenzene	99-35-4	820.17	7	0	4,904	61	7	157			4,910	7
288	Benzyl chloride	100-44-7		7	0			7	157			7	7
289	Methyl parathion	298-00-0	545.83	7	0	3,263	127	7	157			3,270	7
290	Paclobutrazol	76738-62-0		7	0			7	157			7	7
291	Sodium diethyldithiocarbamate	148-18-5		7	0			7	157			7	7
292	Strychnine	57-24-9		7	0			7	157			7	7
293	Vernam	1929-77-7		7	0			7	157			7	7
294	2,3,4,6-Tetrachlorophenol	58-90-2		6	0			6	158			6	6
295	Ally	74223-64-6		6	0			6	158			6	6
296	Ametryn	834-12-8		6	0			6	158			6	6
297	Barium cyanide	542-62-1		6				6	158			6	6
298	Benomyl	17804-35-2		6	0			6	158			6	6
299	Chloramben	133-90-4		6	0			6	158			6	6
300	Cyanogen	460-19-5		6	0			6	158			6	6
301	Ethion	563-12-2	834.03	6	0	4,986	56	6	158			4,992	6
302	Fenamiphos	22224-92-6		6	0			6	158			6	6
303	Maneb	12427-38-2		6	0			6	158			6	6
304	Merphos	150-50-5		6	0			6	158			6	6

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
305	Propylene glycol monoethyl ether	52125-53-8		6				6	158			6	6
306	Rotenone	83-79-4		6	0			6	158			6	6
307	Thallic oxide	1314-32-5		6				6	158			6	6
308	Tralomethrin	66841-25-6		6	0			6	158			6	6
309	Butylate	2008-41-5	578.43	5	0	3,458	121	5	159			3,463	5
310	Carboxin	5234-68-4		5	0	0		5	159			5	5
311	Ethyleneimine	151-56-4		5		0		5	159			5	5
312	Molinate	2212-67-1		5	0	0		5	159			5	5
313	Nitroguanidine	556-88-7		5	0	0		5	159			5	5
314	Oxamyl	23135-22-0		5	0	0		5	159			5	5
315	Phosmet	732-11-6		5	0	0		5	159			5	5
316	1,2,4,5-Tetrachlorobenzene	95-94-3		4	0			4	160			4	4
317	Adiponitrile	111-69-3		4	0			4	160			4	4
318	Allyl chloride	107-05-1		4	0			4	160			4	4
319	Avermectin B1	65195-55-3		4	0			4	160			4	4
320	Carbofuran	1563-66-2		4	0			4	160			4	4
321	Carbonyl sulfide	463-58-1		4				4	160			4	4
322	Cyanazine	21725-46-2		4	0			4	160			4	4
323	Dimethyl sulfate	77-78-1		4	0			4	160			4	4
324	Isoxaben	82558-50-7		4	0			4	160			4	4
325	Methyl chlorocarbonate	79-22-1		4				4	160			4	4
326	N-Nitrosodiethanolamine	1116-54-7		4	0			4	160			4	4
327	Oxyfluorfen	42874-03-3		4	0			4	160			4	4
328	Pentachlorobenzene	608-93-5	753.58	4	0	4,505	78	4	160			4,509	4
329	Prometryn	7287-19-6		4	0			4	160			4	4
330	Propiconazole	60207-90-1		4	0			4	160			4	4
331	S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	0			4	160			4	4
332	technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	0	4,633	76	4	160			4,637	4

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
333	Tetraethyldithiopyrophosphate	3689-24-5		4	0			4	160			4	4
334	Thallium acetate	563-68-8		4	0			4	160			4	4
335	Vinclozolin	50471-44-8		4	0			4	160			4	4
336	3,4-Dimethylphenol	95-65-8		3	0			3	161			3	3
337	Aldicarb	116-06-3		3	0			3	161			3	3
338	Aldicarb sulfone	1646-88-4		3	0			3	161			3	3
339	Amitraz	33089-61-1		3	0			3	161			3	3
340	Benzotrachloride	98-07-7		3	0			3	161			3	3
341	Bromoxynil octanoate	1689-99-2		3	0			3	161			3	3
342	Diphenamid	957-51-7		3	0			3	161			3	3
343	Dodine	2439-10-3		3	0			3	161			3	3
344	Endosulfan	115-29-7	1,004.65	3	0	6,007	38	3	161			6,009	3
345	Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	0			3	161			3	3
346	Fonofos	944-22-9		3	0			3	161			3	3
347	Nonabromodiphenyl ether	63936-56-1		3				3	161			3	3
348	Norflurazon	27314-13-2		3	0			3	161			3	3
349	Propazine	139-40-2		3	0			3	161			3	3
350	Sethoxydim	74051-80-2		3	0			3	161			3	3
351	Terbacil	5902-51-2		3	0			3	161			3	3
352	Terbutryn	886-50-0		3	0			3	161			3	3
353	Zineb	12122-67-7		3	0			3	161			3	3
354	1,2,4-Tribromobenzene	615-54-3		2	0			2	162			2	2
355	1,4-Dibromobenzene	106-37-6		2	0			2	162			2	2
356	Acifluorfen, sodium	62476-59-9		2	0			2	162			2	2
357	Aramite	140-57-8		2	0			2	162			2	2
358	Bidrin	141-66-2		2	0			2	162			2	2
359	Calcium cyanide	592-01-8		2	0			2	162			2	2
360	Chlorsulfuron	64902-72-3		2	0			2	162			2	2

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (Cont.)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
361	Dimethyl terephthalate (DMT)	120-61-6		2	0			2	162			2	2
362	Flutolanil	66332-96-5		2	0			2	162			2	2
363	Fluvalinate	69409-94-5		2	0			2	162			2	2
364	Imazaquin	81335-37-7		2	0			2	162			2	2
365	Merphos oxide	78-48-8	797.88	2	0	4,770	72	2	162			4,772	2
366	Napropamide	15299-99-7		2	0			2	162			2	2
367	Nitrapyrin	1929-82-4		2				2	162			2	2
368	Nitrate	14797-55-8	610.66	2	0	3,651	106	2	162			3,653	2
369	Octabromodiphenyl ether	32536-52-0		2	0			2	162			2	2
370	p,p'-Dibromodiphenyl ether	2050-47-7		2				2	162			2	2
371	Sodium fluoroacetate	62-74-8		2	0			2	162			2	2
372	1,2-Diphenylhydrazine	122-66-7	713.90	1	0	4,268	84	1	163			4,269	1
373	Allyl alcohol	107-18-6		1	0			1	163			1	1
374	Bromotrichloromethane	75-62-7		1				1	163			1	1
375	Chlordane (technical)	12789-03-6	602.62	1	0	3,603	110	1	163			3,604	1
376	Diethyl sulfate	64-67-5		1				1	163			1	1
377	Fluometuron	2164-17-2		1	0			1	163			1	1
378	Furan	110-00-9		1	0			1	163			1	1
379	Isopropalin	33820-53-0		1	0			1	163			1	1
380	Linuron	330-55-2		1	0			1	163			1	1
381	Maleic hydrazide	123-33-1		1	0			1	163			1	1
382	N-Nitrosopyrrolidine	930-55-2		1	0			1	163			1	1
383	Systhane	88671-89-0		1	0			1	163			1	1
384	t-Butyl chloride	507-20-0		1				1	163			1	1
385	Thallium (I) sulfate	7446-18-6		1	0			1	163			1	1
386	Thallium carbonate	6533-73-9		1	0			1	163			1	1
387	Thallium chloride	7791-12-0		1	0			1	163			1	1
388	Thiobencarb	28249-77-6		1	0			1	163			1	1

TABLE 2a. Ranking of the IRIS Chemicals of Interest Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/RSL Combined Score	HMIRS ERPIMS/RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
389	Triallate	2303-17-5		1	0			1	163			1	1
390	Fluorine, soluble fluoride	7782-41-4	613.28		0	3,667	103					3,667	
391	Formaldehyde	50-00-0	599.64		0	3,585	115					3,585	
392	Nitrite	14797-65-0	612.64		0	3,663	104					3,663	
393	Radium 226,228	7440-14-4	828.07			4,951	60					4,951	

* 0 = no RSL exceedances; blank = no RSL

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TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
1	1,1,1,2-Tetrachloroethane	630-20-6		19	55			18	146	335	38	353	353
2	1,1,1,2-Tetrafluoroethane	811-97-2		775	0			725	42			725	725
3 1,1	1,1,2-Trichloroethane	71-55-6	833.81	3,552	7	4,985	57	3,321	11	43	60	8,349	3,364
4 1,1	1,1,2-Trichloroethane	79-34-5	782.15	43	127	4,676	74	40	125	774	25	5,490	814
5	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	0			1,016	35			1,016	1,016
6 1,1	1,1,2-Trichloroethane	79-00-5	724.96	51	226	4,334	83	48	118	1,377	16	5,759	1,425
7	1,1-Biphenyl	92-52-4		98	0			92	92			92	92
8 1,1	1,1-Dichloroethane	75-34-3	736.23	45	168	4,402	81	42	123	1,024	22	5,468	1,066
9	1,2,3-Trichloropropane	96-18-4		20	80			19	145	488	32	506	506
10	1,2,4,5-Tetrachlorobenzene	95-94-3		4	0			4	160			4	4
11	1,2,4-Tribromobenzene	615-54-3		2	0			2	162			2	2
12 1,2	1,2,4-Trichlorobenzene	120-82-1	647.30	56	63	3,870	97	52	115	384	34	4,306	436
13 1,2	1,2-Dibromo-3-chloropropane	96-12-8	1,035.55	30	80	6,191	31	28	136	488	32	6,707	516
14 1,2	1,2-Dichlorobenzene	95-50-1	704.91	249	22	4,215	86	233	68	134	48	4,581	367
15 1,2	1,2-Dichloroethane	107-06-2	863.99	440	359	5,166	47	411	55	2,188	11	7,765	2,599
16	1,2-Dichloropropane	78-87-5		51	132			48	118	804	24	852	852
17	1,2-Diphenylhydrazine	122-66-7	713.90	1	0	4,268	84	1	163			4,269	1
18	1,2-Epoxybutane	106-88-7		300	0			280	62	0		280	280
19	1,3,5-Trinitrobenzene	99-35-4	820.17	7	0	4,904	61	7	157			4,910	7
20	1,3-Dichlorobenzene	541-73-1	631.41	62		3,775	99	58	110			3,833	58
21	1,4-Dibromobenzene	106-37-6		2	0			2	162			2	2
22 1,4	1,4-Dichlorobenzene	106-46-7	737.32	246	276	4,408	80	230	69	1,682	15	6,320	1,912
23 1,4	1,4-Dioxane	123-91-1	616.29	623	23	3,685	102	582	46	140	47	4,407	723
24	1,6-Hexamethylene diisocyanate	822-06-0		2,283	0			2,134	20			2,134	2,134

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
25	1-Chlorobutane	109-69-3		14	0			13	151			13	13
26	2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	0			16	148			16	16
27	2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	18			51	116	110	51	161	161
28	2,3,4,6-Tetrachlorophenol	58-90-2		6	0			6	158			6	6
29	2,4,5-Trichlorophenol	95-95-4	604.83	21	0	3,616	108	20	144			3,636	20
30	2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	0			16	148			16	16
31	2,4,6-T richlorophenol	88-06-2	863.71	35	22	5,164	48	33	131	134	48	5,331	167
32	2,4,6-T rinitrotoluene	118-96-7	883.59	51	6	5,283	45	48	118	37	61	5,367	84
33	2,4-Diaminotoluene	95-80-7		8	0			7	157			7	7
34	2,4-Dichlorophenol	120-83-2	616.45		3	3,686	101			18	64	3,704	18
35	2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	0	3,494	118	102	86			3,596	102
36	2,4-Dimeth ylphenol	105-67-9	685.76	26	8	4,100	92	24	140	49	59	4,173	73
37	2,4-Dinitrophe nol	51-28-5	860.45	34	9	5,144	49	32	132	55	58	5,231	87
38	2,4-Dinitrotoluen e	121-14-2	837.88	43	53	5,010	55	40	125	323	39	5,373	363
39	2,6-Dimethylphenol	576-26-1		12	0			11	153			11	11
40	2,6-Dinitrotoluen e	606-20-2	555.20	20	7	3,319	126	19	145	43	60	3,381	61
41	2-Chloroacetophenone	532-27-4		10				9	155			9	9
42	2-Chlorophenol	95-57-8	599.62	36	0	3,585	116	34	130			3,619	34
43	2-Ethoxyethanol	110-80-5		688	0			643	45			643	643
44	2-Methoxyethanol	109-86-4		559	0			523	50			523	523
45	2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	5	0		7	157	30	62	37	37
46	2-Meth ylphenol	95-48-7	658.66	103	3	3,938	94	96	88	18	64	4,053	115
47	2-Nitropropane	79-46-9		43	0			40	125			40	40
48	3,3-Dimethylbenzidine	119-93-7		14	0			13	151			13	13
49	3,4-Dimethylphenol	95-65-8		3	0			3	161			3	3
50	3-Methylphenol	108-39-4		43	0			40	125			40	40
51	4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	0			12	152			12	12
52	4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	0			9	155			9	9

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
53	4-Aminopyridine	504-24-5		16				15	149			15	15
54	4-Methylphenol	106-44-5	707.83	39	16	4,232	85	36	128	98	53	4,366	134
55	Acenaphthene	83-32-9	731.25	37	2	4,372	82	35	129	12	65	4,419	47
56	Acenaphthylene	208-96-8		20				19	145			19	19
57	Acephate	30560-19-1		30	0			28	136			28	28
58	Acetaldehyde	75-07-0		323	1			302	60	6	66	308	308
59	Acetophenone	98-86-2		14	1			13	151	6	66	19	19
60	Acifluorfen, sodium	62476-59-9		2	0			2	162			2	2
61	Acrylamide	79-06-1		303	0			283	61			283	283
62	Acrylic acid	79-10-7		234	0			219	73			219	219
63	Acrylonitrile	107-13-1	528.28	265	8	3,158	132	248	67	49	59	3,455	297
64	Adiponitrile	111-69-3		4	0			4	160			4	4
65	Alachlor	15972-60-8		19	0			18	146			18	18
66	Aldicarb	116-06-3		3	0			3	161			3	3
67	Aldicarb sulfone	1646-88-4		3	0			3	161			3	3
68	Aldrin	309-00-2	1,117.22	44	97	6,680	17	41	124	591	29	7,312	632
69	Allyl	74223-64-6		6	0			6	158			6	6
70	Allyl alcohol	107-18-6		1	0			1	163			1	1
71	Allyl chloride	107-05-1		4	0			4	160			4	4
72	alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	80	4,840	65	29	135	488	32	5,357	516
73	Aluminum phosphide	20859-73-8		19	0			18	146			18	18
74	Aluminum sulfamate	7773-06-0		9	0			8	156			8	8
75	Amdro	67485-29-4		77	0			72	102			72	72
76	Ametryn	834-12-8		6	0			6	158			6	6
77	Amitraz	33089-61-1		3	0			3	161			3	3
78	Ammonia	7664-41-7	745.55	1,453		4,457	79	1,358	31			5,816	1,358
79	Ammonium acetate	631-61-8		368				344	58			344	344
80	Aniline	62-53-3		140	0			131	80			131	131

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
81	Anthracene	120-12-7		38	0			36	128			36	36
82	Antimony	7440-36-0	605.37	2,105	0	3,619	107	1,968	22			5,587	1,968
83	Antimony trioxide	1309-64-4		906	0			847	41			847	847
84	Aramite	140-57-8		2	0			2	162			2	2
85	Arochlor 1016	12674-11-2	1,014.33	41	10	6,064	35	38	126	61	57	6,164	99
86	Arochlor 1254	11097-69-1	1,182.63	70	92	7,071	8	65	104	561	30	7,697	626
87	Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,641	10,000		1,570	25	10,000	1	21,570	11,570
88	Arsine	7784-42-1	602.42	11		3,602	111	10	154			3,612	10
89	Asbestos	1332-21-4	841.54	475		5,031	51	444	53			5,475	444
90	Atrazine	1912-24-9		37	1			35	129	6	66	41	41
91	Avermectin B1	65195-55-3		4	0			4	160			4	4
92	Azobenzene	103-33-3		17	1			16	148	6	66	22	22
93	Barium cyanide	542-62-1		6				6	158			6	6
94	Baygon	114-26-1		106	0			99	87			99	99
95	Bayleton	43121-43-3		15	0			14	150	0		14	14
96	Baythroid	68359-37-5		50	0			47	119			47	47
97	Benefin	1861-40-1		16	0			15	149			15	15
98	Benomyl	17804-35-2		6	0			6	158			6	6
99	Benzaldehyde	100-52-7		101	0			94	90			94	94
100	Benzidine	92-87-5	1,114.24	23	4	6,662	19	22	142	24	63	6,708	46
101	Benzo [a] pyrene	50-32-8	1,312.45	41	729	7,847	5	38	126	4,442	3	12,328	4,481
102	Benzo(a)anthracene	56-55-3	1,057.96	33	529	6,325	27	31	133	3,224	8	9,580	3,254
103	Benzo(b)fluoranthene	205-99-2	1,266.55	25	549	7,572	6	23	141	3,346	6	10,941	3,369
104	Benzo(k)fluoranthene	207-08-9	981.26	24	216	5,867	40	22	142	1,316	17	7,205	1,339
105	Benzo[g,h,i]perylene	191-24-2		19				18	146			18	18
106	Benzotrichloride	98-07-7		3	0			3	161			3	3
107	Benzyl chloride	100-44-7		7	0			7	157			7	7
108	Beryllium and compounds	7440-41-7	1,046.12	379	11	6,255	29	354	56	67	56	6,676	421

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
109	beta-Chloronaphthalene	91-58-7		24	0			22	142			22	22
110	beta-He xachlorocyclohexane	319-85-7	1,060.22	29	58	6,339	25	27	137	353	36	6,719	381
111	Bidrin	141-66-2		2	0			2	162			2	2
112	Biphenthrin	82657-04-3		12	0			11	153			11	11
113	Bis(2-chloroethoxy)methane	111-91-1		14	1			13	151	6	66	19	19
114	Bis(2-chloroisopropyl) ether	108-60-1		14	1			13	151	6	66	19	19
115	Bis(chloroeth yl)ether	111-44-4	859.88	20	39	5,141	50	19	145	238	42	5,397	256
116	Bisphenol A	80-05-7		482	0			451	52			451	451
117	Bromochloromethane	74-97-5		55				51	116			51	51
118	Bromodichloromethane	75-27-4		50	281			47	119	1,712	14	1,759	1,759
119	Bromoform	75-25-2	643.53	68	21	3,848	98	64	106	128	49	4,039	192
120	Bromomethane	74-83-9		63	46			59	109	280	40	339	339
121	Bromotrichloromethane	75-62-7		1				1	163			1	1
122	Bromoxnyl octanoate	1689-99-2		3	0			3	161			3	3
123	Butyl benzyl phthalate	85-68-7	659.38	1,070	17	3,942	93	1,000	36	104	52	5,046	1,104
124	Butylate	2008-41-5	578.43	5	0	3,458	121	5	159			3,463	5
125	Cacodylic acid	75-60-5	922.06	11	0	5,513	41	10	154			5,523	10
126	Cadmium	7440-43-9	1,324.22	1,970	110	7,917	4	1,842	24	670	27	10,429	2,512
127	Calcium cyanide	592-01-8		2	0			2	162			2	2
128	Caprolactam	105-60-2		23	0			22	142			22	22
129	Captan	133-06-2		10	0			9	155			9	9
130	Carbaryl	63-25-2	530.98	93	0	3,175	131	87	94			3,262	87
131	Carbofuran	1563-66-2		4	0			4	160			4	4
132	Carbon disulfide	75-15-0	702.55	40	4	4,200	89	37	127	24	63	4,262	62
133	Carbon tetrachloride	56-23-5	1,023.32	292	215	6,118	34	273	64	1,310	18	7,701	1,583
134	Carbonyl sulfide	463-58-1		4				4	160			4	4
135	Carboxin	5234-68-4		5	0	0		5	159			5	5
136	Chloramben	133-90-4		6	0			6	158			6	6

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
137	Chlordane (technical)	12789-03-6	602.62	1	0	3,603	110	1	163			3,604	1
138	Chlorine	7782-50-5	840.37	241	0	5,024	52	225	70			5,250	225
139	Chlorobenzene	108-90-7	819.69	213	85	4,901	62	199	74	518	31	5,618	717
140	Chlorobenzilate	510-15-6		12	0			11	153			11	11
141	Chlorodifluoromethane	75-45-6		774	0			724	43			724	724
142	Chlorothalonil	1897-45-6		205	0			192	75			192	192
143	Chlorpropham	101-21-3		8	0			7	157			7	7
144	Chlorpyrifos	2921-88-2	804.93	166	0	4,813	68	155	76			4,968	155
145	Chlorsulfuron	64902-72-3		2	0			2	162			2	2
146	Chromium (VI)	18540-29-9	1,149.98	147	19	6,875	12	137	79	116	50	7,129	253
147	Chromium III, insoluble salts	16065-83-1		118	0			110	83			110	110
148	Chrysene	218-01-9	802.10	34	117	4,796	71	32	132	713	26	5,540	745
149	cis-1,2-Dichloroethylene	156-59-2	533.15	27	197	3,188	129	25	139	1,200	20	4,413	1,226
150	Coke oven emissions	8007-45-2	807.07	77		4,825	67	72	102			4,897	72
151	Copper	7440-50-8	804.86	6,993	39	4,812	69	6,538	6	238	42	11,588	6,776
152	Copper cyanide	544-92-3		20	0			19	145			19	19
153	Creosote	8001-58-9	1,124.32	32		6,722	16	30	134			6,752	30
154	Cumene	98-82-8		1,632	6			1,526	28	37	61	1,562	1,562
155	Cyanazine	21725-46-2		4	0			4	160			4	4
156	Cyanide, free	57-12-5	1,099.48	48	0	6,574	20	45	121			6,618	45
157	Cyanogen	460-19-5		6	0			6	158			6	6
158	Cyclohexanone	108-94-1		2,829	0			2,645	13			2,645	2,645
159	Cyclohexylamine	108-91-8		154	0			144	78			144	144
160	Cypermethrin	52315-07-8		26	0			24	140			24	24
161	Dacthal	1861-32-1		20	0			19	145			19	19
162	Dalapon (sodium salt)	75-99-0		14	0			13	151			13	13
163	Decabromodiphenyl ether (DBDPE)	1163-19-5		56	0			52	115			52	52
164	delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30		6,208	30	28	136			6,236	28

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
165	di(2-ethylhexyl)Adipate	103-23-1	540.20	50	0	3,230	128	47	119			3,276	47
166	Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	337	5,495	42	1,226	32	2,054	12	8,774	3,279
167	Dibenzo(a,h)anthracene	53-70-3	1,165.88	23	457	6,971	9	22	142	2,785	10	9,777	2,806
168	Dibenzofuran	132-64-9	689.19	17		4,121	91	16	148			4,136	16
169	Dibromochloromethane	124-48-1	580.59	48	208	3,471	119	45	121	1,268	19	4,784	1,312
170	Dibutyl phthalate	84-74-2	1,007.49	1,132	1	6,024	36	1,058	33	6	66	7,088	1,064
171	Dicamba	1918-00-9		58	0			54	114			54	54
172	Dichlorodifluoromethane	75-71-8		953	5			891	39	30	62	921	921
173	Dichloromethane	75-09-2	888.96	4,136	302	5,315	44	3,867	9	1,840	13	11,022	5,707
174	Dichlorvos	62-73-7	601.64	49	0	3,597	113	46	120			3,643	46
175	Dieldrin	60-57-1	1,150.91	45	173	6,881	11	42	123	1,054	21	7,977	1,096
176	Diethyl phthalate	84-66-2		56	0			52	115			52	52
177	Diethyl sulfate	64-67-5		1				1	163			1	1
178	Dimethoate	60-51-5	602.61	11	0	3,603	110	10	154			3,613	10
179	Dimethyl sulfate	77-78-1		4	0			4	160			4	4
180	Dimethyl terephthalate (DMT)	120-61-6		2	0			2	162			2	2
181	Dimethylamine	124-40-3		38				36	128			36	36
182	Dinoseb	88-85-7		13	0			12	152			12	12
183	Diphenamid	957-51-7		3	0			3	161			3	3
184	Diphenylamine	122-39-4		123	0			115	82			115	115
185	Diquat	85-00-7		32	0			30	134			30	30
186	Disulfoton	298-04-4	1,058.85	25	0	6,331	26	23	141			6,354	23
187	Diuron	330-54-1	579.16	72	0	3,463	120	67	103			3,530	67
188	d-Limonene	5989-27-5		1,488				1,391	30			1,391	1,391
189	Dodine	2439-10-3		3	0			3	161			3	3
190	Endosulfan	115-29-7	1,004.65	3	0	6,007	38	3	161			6,009	3
191	Endothall	145-73-3		8	0			7	157			7	7
192	Endrin	72-20-8	1,048.57	58	1	6,269	28	54	114	6	66	6,329	60

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
193	Epichlorohydrin	106-89-8		559	0			523	50			523	523
194	Ethion	563-12-2	834.03	6	0	4,986	56	6	158			4,992	6
195	Ethyl acetate	141-78-6		4,385	0			4,100	8			4,100	4,100
196	Ethyl carbamate	51-79-6		12				11	153			11	11
197	Ethyl chloride	75-00-3	693.90	64	1	4,149	90	60	108	6	66	4,215	66
198	Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	0			3	161			3	3
199	Ethylbenzene	100-41-4	832.13	10,696	543	4,975	59	10,000	1	3,309	7	18,284	13,309
200	Ethylene diamine	107-15-3		377	0			352	57			352	352
201	Ethylene glycol	107-21-1		10,234	0			9,568	2			9,568	9,568
202	Ethylene thiourea	96-45-7		65	0			61	107			61	61
203	Ethyleneimine	151-56-4		5		0		5	159			5	5
204	Fenamiphos	22224-92-6		6	0			6	158			6	6
205	Fluorine, soluble fluoride	7782-41-4	613.28		0	3,667	103					3,667	
206	Fluometuron	2164-17-2		1	0			1	163			1	1
207	Fluoranthene	206-44-0	812.40	32	0	4,857	63	30	134			4,887	30
208	Fluorene	86-73-7		19	5			18	146	30	62	48	48
209	Fluridone	59756-60-4		8	0			7	157			7	7
210	Flutolanil	66332-96-5		2	0			2	162			2	2
211	Fluvalinate	69409-94-5		2	0			2	162			2	2
212	Folpet	133-07-3		68	0			64	106			64	64
213	Fonofos	944-22-9		3	0			3	161			3	3
214	Formaldehyde	50-00-0	599.64		0	3,585	115					3,585	
215	Formic acid	64-18-6		271	1			253	66	6	66	259	259
216	Furan	110-00-9		1	0			1	163			1	1
217	Furfural	98-01-1		61	0			57	111			57	57
218	gamma-Hexachlorocyclohexane	58-89-9	1,081.63	82	39	6,467	22	77	100	238	42	6,781	314
219	Glyphosate	1071-83-6		33	0			31	133			31	31
220	Heptachlor	76-44-8	1,072.67	54	72	6,413	24	50	117	439	33	6,903	489

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
221	Heptachlor epoxide	1024-57-3	1,027.12	45	104	6,141	33	42	123	634	28	6,817	676
222	Hexachloro benzene	118-74-1	838.34	88	33	5,012	54	82	97	201	45	5,296	283
223	Hexachlorobutadiene	87-68-3	1,129.63		85	6,754	15			518	31	7,272	518
224	Hexachloro ethane	67-72-1	653.10	39	23	3,905	95	36	128	140	47	4,081	177
225	Hexachlorophene	70-30-4		24	0			22	142			22	22
226	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	34	5,024	53	95	89	207	44	5,326	303
227	Hexazinone	51235-04-2		29	0			27	137			27	27
228	Hydrazine/hydrazine sulfate	302-01-2	864.41	69	5	5,168	46	65	105	30	62	5,263	95
229	Hydrogen chloride	7647-01-0		2,670				2,496	15			2,496	2,496
230	Hydrogen cyanide	74-90-8	803.08	32	0	4,801	70	30	134			4,831	30
231	Hydroquinone	123-31-9		2,337	0			2,185	19			2,185	2,185
232	Imazaquin	81335-37-7		2	0			2	162			2	2
233	Indeno[1,2,3-cd]pyrene	193-39-5	703.30	23	474	4,205	88	22	142	2,888	9	7,115	2,910
234	Iprodione	36734-19-7		14	0			13	151			13	13
235	Isobutyl alcohol	78-83-1		2,432	0			2,274	18			2,274	2,274
236	Isophorone	78-59-1		237	4			222	72	24	63	246	246
237	Isopropalin	33820-53-0		1	0			1	163			1	1
238	Isoxaben	82558-50-7		4	0			4	160			4	4
239	Linuron	330-55-2		1	0			1	163			1	1
240	Malathion	121-75-5		80	0			75	101			75	75
241	Maleic anhydride	108-31-6		21	0			20	144			20	20
242	Maleic hydrazide	123-33-1		1	0			1	163			1	1
243	Maneb	12427-38-2		6	0			6	158			6	6
244	Manganese	7439-96-5	807.90	7,411	0	4,830	66	6,929	5			11,759	6,929
245	Mercuric chloride	7487-94-7	601.45	50	0	3,596	114	47	119			3,643	47
246	Mercury, elemental	7439-97-6	1,504.69	1,588	160	8,996	2	1,485	29	975	23	11,456	2,460
247	Merphos	150-50-5		6	0			6	158			6	6
248	Merphos oxide	78-48-8	797.88	2	0	4,770	72	2	162			4,772	2

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
249	Metalaxyl	57837-19-1		10	0			9	155			9	9
250	Methacrylonitrile	126-98-7		2	2			2	162	12	65	14	14
251	Methanol	67-56-1		7,659	0			7,161	4			7,161	7,161
252	Methomyl	16752-77-5		22	0			21	143			21	21
253	Methoxychlor	72-43-5	994.47	63	0	5,946	39	59	109			6,005	59
254	Methyl acrylate	96-33-3		102	0			95	89			95	95
255	Methyl chlorocarbonate	79-22-1		4				4	160			4	4
256	Methyl parathion	298-00-0	545.83	7	0	3,263	127	7	157			3,270	7
257	Methyl tert-butyl ether	1634-04-4		742	110			694	44	670	27	1,364	1,364
258	Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	0			993	37			993	993
259	Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	0			561	47			561	561
260	Metolachlor	51218-45-2		9	0			8	156			8	8
261	Metribuzin	21087-64-9		16	0			15	149			15	15
262	Molinate	2212-67-1		5	0	0		5	159			5	5
263	Molybdenum	7439-98-7		3,186	19			2,979	12	116	50	3,094	3,094
264	m-Phenylenediamine	108-45-2		89	0			83	96			83	83
265	N,N-Dimethylaniline	121-69-7		68	0			64	106			64	64
266	N,N-Dimethylformamide	68-12-2	578.23	363	0	3,457	122	339	59			3,796	339
267	Naled	300-76-5	602.32	18	0	3,601	112	17	147			3,618	17
268	Naphthalene	91-20-3	896.67	1,635	818	5,361	43	1,529	27	4,985	2	11,874	6,513
269	Napropamide	15299-99-7		2	0			2	162			2	2
270	n-Butanol	71-36-3		6,253	0			5,846	7			5,846	5,846
271	n-Heptane	142-82-5		2,116				1,978	21			1,978	1,978
272	Nickel	7440-02-0	1,005.40	7,850	0	6,011	37	7,339	3			13,350	7,339
273	Nitrapyrin	1929-82-4		2				2	162			2	2
274	Nitrate	14797-55-8	610.66	2	0	3,651	106	2	162			3,653	2
275	Nitric Oxide	10102-43-9		43				40	125			40	40

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
276	Nitrite	14797-65-0	612.64		0	3,663	104					3,663	
277	Nitrobenzene	98-95-3		37	39			35	129	238	42	272	272
278	Nitroguanidine	556-88-7		5	0	0		5	159			5	5
279	N-Nitrosodiethanolamine	1116-54-7		4	0			4	160			4	4
280	N-Nitrosodiethylamine	55-18-5		1	2			1	163	12	65	13	13
281	N-Nitrosodimethylamine	62-75-9	650.71	16	22	3,890	96	15	149	134	48	4,039	149
282	N-Nitroso-di-n-butylamine	924-16-3		2	1			2	162	6	66	8	8
283	N-Nitroso-di-N-propylamine	621-64-7	811.05	23	60	4,849	64	22	142	366	35	5,236	387
284	N-Nitrosodiphenylamine	86-30-6	624.79	29	14	3,735	100	27	137	85	55	3,848	112
285	N-Nitroso-N-methylethylamine	10595-95-6		1	1			1	163	6	66	7	7
286	N-Nitrosopyrrolidine	930-55-2		1	0			1	163			1	1
287	Nonabromodiphenyl ether	63936-56-1		3				3	161			3	3
288	Norflurazon	27314-13-2		3	0			3	161			3	3
289	o-Chlorotoluene	95-49-8		94	0			88	93			88	88
290	Octabromodiphenyl ether	32536-52-0		2	0			2	162			2	2
291	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0		46	0			43	122			43	43
292	o-Dinitrobenzene	528-29-0			34			0		207	44	207	207
293	Oryzalin	19044-88-3		13	0			12	152			12	12
294	Oxadiazon	19666-30-9		14	0			13	151			13	13
295	Oxamyl	23135-22-0		5	0	0		5	159			5	5
296	Oxyfluorfen	42874-03-3		4	0			4	160			4	4
297	p,p'-Dibromodiphenyl ether	2050-47-7		2				2	162			2	2
298	p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	38	6,665	18	35	129	232	43	6,931	266
299	p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	1,132.49	37	45	6,771	14	35	129	274	41	7,080	309
300	p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	15	7,135	7	107	84	91	54	7,333	198
301	Paclobutrazol	76738-62-0		7	0			7	157			7	7
302	Paraquat	1910-42-5		8	0			7	157			7	7
303	Parathion	56-38-2	784.14	8	0	4,688	73	7	157			4,696	7

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
304	p-Chloroaniline	106-47-8		8	34			7	157	207	44	215	215
305	Pendimethalin	40487-42-1		32	0			30	134			30	30
306	Pentabromodiphenyl ether	32534-81-9		14	0			13	151			13	13
307	Pentachlorobenzene	608-93-5	753.58	4	0	4,505	78	4	160			4,509	4
308	Pentachloronitrobenzene	82-68-8		12	0			11	153			11	11
309	Pentachlorophenol	87-86-5	1,028.01	110	60	6,146	32	103	85	366	35	6,615	468
310	Pentafluoroethane	354-33-6		86	0			80	98			80	80
311	Permethrin	52645-53-1		103	0			96	88			96	96
312	Phenanthrene	85-01-8	597.68	36		3,573	117	34	130			3,607	34
313	Phenylmercuric acetate	62-38-4		240	0			224	71			224	224
314	Phosmet	732-11-6		5	0	0		5	159			5	5
315	Phosphine	7803-51-2	559.74	16	0	3,347	125	15	149			3,362	15
316	Phosphoric acid	7664-38-2		2,437				2,278	17			2,278	2,278
317	Picloram	1918-02-1		10	0			9	155			9	9
318	p-Nitrophenol	100-02-7	567.79	55		3,395	124	51	116			3,446	51
319	Poly chlorinated biphenyls	1336-36-3	1,365.78	2,791	6	8,166	3	2,609	14	37	61	10,812	2,646
320	Potassium cyanide	151-50-8		161	0			151	77			151	151
321	Potassium silver cyanide	506-61-6		14	0			13	151			13	13
322	Prometon	1610-18-0		28	0			26	138			26	26
323	Prometryn	7287-19-6		4	0			4	160			4	4
324	Pronamide	23950-58-5		8	0			7	157			7	7
325	Propachlor	1918-16-7		14	0			13	151			13	13
326	Propargyl alcohol	107-19-7		17	0			16	148			16	16
327	Propazine	139-40-2		3	0			3	161			3	3
328	Propiconazole	60207-90-1		4	0			4	160			4	4
329	Propylene glycol	57-55-6		4,063	0			3,799	10			3,799	3,799
330	Propylene glycol monoethyl ether	52125-53-8		6				6	158			6	6
331	Propylene glycol monomethyl ether	107-98-2		2,048	0			1,915	23			1,915	1,915

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
332	Propylene oxide	75-56-9		246	0			230	69			230	230
333	Pydrin	51630-58-1		14	0			13	151			13	13
334 P	yrene	129-00-0	577.95	30	2	3,455	123	28	136	12	65	3,496	40
335	Pyridine	110-86-1		83	0			78	99			78	78
336	Quinone	106-51-4		11				10	154			10	10
337	Radium 226,228	7440-14-4	828.07			4,951	60					4,951	
338	Resmethrin	10453-86-8		86	0			80	98			80	80
339	Rotenone	83-79-4		6	0			6	158			6	6
340	Selenious acid	7783-00-8		110	0			103	85			103	103
341	Selenium and compounds	7782-49-2	778.98	296	29	4,657	75	277	63	177	46	5,111	453
342	Selenium sulfide	7446-34-6		27	0			25	139			25	25
343	Sethoxydim	74051-80-2		3	0			3	161			3	3
344	S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	0			4	160			4	4
345 Silver		7440-22-4	612.19	2,491	17	3,660	105	2,329	16	104	52	6,093	2,433
346	Silver cyanide	506-64-9		29	0			27	137			27	27
347	Simazine	122-34-9		46	0			43	122			43	43
348	Sodium azide	26628-22-8		1,100	0			1,028	34			1,028	1,028
349	Sodium cyanide	143-33-9		90	0			84	95			84	84
350	Sodium diethyldithiocarbamate	148-18-5		7	0			7	157			7	7
351	Sodium fluoroacetate	62-74-8		2	0			2	162			2	2
352	Strychnine	57-24-9		7	0			7	157			7	7
353 St	yrene	100-42-5	532.70	1,646	1	3,185	130	1,539	26	6	66	4,730	1,545
354	Systhane	88671-89-0		1	0			1	163			1	1
355	t-Butyl chloride	507-20-0		1				1	163			1	1
356	Tebuthiuron	34014-18-1		17	0			16	148			16	16
357	technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	0	4,633	76	4	160			4,637	4
358	Terbacil	5902-51-2		3	0			3	161			3	3
359	Terbutryn	886-50-0		3	0			3	161			3	3

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
360	Tetrachloroethylene	127-18-4	1,080.43	929	565	6,460	23	869	40	3,443	5	10,771	4,312
361	Tetrachlorovinphos	961-11-5		8	0			7	157			7	7
362	Tetraethyl lead	78-00-2		99	0			93	91			93	93
363	Tetraethyldithiopyrophosphate	3689-24-5		4	0			4	160			4	4
364	Thallic oxide	1314-32-5		6				6	158			6	6
365	Thallium (I) sulfate	7446-18-6		1	0			1	163			1	1
366	Thallium acetate	563-68-8		4	0			4	160			4	4
367	Thallium carbonate	6533-73-9		1	0			1	163			1	1
368	Thallium chloride	7791-12-0		1	0			1	163			1	1
369	Thallium nitrate	10102-45-1		27	0			25	139			25	25
370	Thiobencarb	28249-77-6		1	0			1	163			1	1
371	Thiram	137-26-8		93	0			87	94			87	87
372	Toxaphene	8001-35-2	1,086.65	24	9	6,497	21	22	142	55	58	6,574	77
373	Tralomeethrin	66841-25-6		6	0			6	158			6	6
374	trans-1,2-Dichloroethylene	156-60-5	704.04	136	57	4,209	87	127	81	347	37	4,684	474
375	Triallate	2303-17-5		1	0			1	163			1	1
376	Tributyltin oxide	56-35-9		106	0			99	87			99	99
377	Trichloroacetic acid	76-03-9		62				58	110			58	58
378	Trichloroethylene	79-01-6	1,154.73	568	631	6,904	10	531	49	3,845	4	11,280	4,376
379	Trichlorofluoromethane	75-69-4		535	3			500	51	18	64	518	518
380	Tricresol	1319-77-3	602.74	272	0	3,604	109	254	65			3,858	254
381	Triethylamine	121-44-8		459	0			429	54			429	429
382	Triethylene glycol monobutyl ether	143-22-6		60				56	112			56	56
383	Trifluralin	1582-09-8	770.12	27	0	4,604	77	25	139			4,630	25
384	Uranium, natural	7440-61-1	833.41	59	0	4,983	58	55	113			5,038	55
385	Vanadium pentoxide	1314-62-1		587	0			549	48			549	549
386	Vernam	1929-77-7		7	0			7	157			7	7
387	Vinclozolin	50471-44-8		4	0			4	160			4	4

TABLE 2b. Alphabetical Chemical Listing of the IRIS Chemicals of Interest Ranking Using HMIRS and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring (*Cont.*)

ITEM #	CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
						Score	Rank	Score	Rank	Score	Rank		
	Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
388	Vinyl acetate	108-05-4		953	0			891	39			891	891
389	Warfarin	81-81-2		9	0			8	156			8	8
390	White phosphorus	7723-14-0	1,144.77	1,054	0	6,844	13	985	38			7,830	985
391	Zinc cyanide	557-21-1		9	0			8	156			8	8
392	Zinc phosphide	1314-84-7		19	0			18	146			18	18
393	Zineb	12122-67-7		3	0			3	161			3	3

* 0 = no RSL exceedances; blank = no RSL

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APPENDIX A

Evaluation of USEPA IRIS Chemicals Due for Reassessment of Their Toxicity Values for Interest to the DoD and the U.S. Air Force

- Appendix A-1. Methodology and Details of the Evaluation of USEPA IRIS Chemicals of Interest Due for Reassessment of Their Toxicity Values for Interest to the DoD and the U.S. Air Force
- Appendix A-2. Ranking of the USEPA IRIS Chemicals of Interest Using the ATSDR CERCLA Priority List of Hazardous Substances Points
- Appendix A-3. Ranking of the USEPA IRIS Chemicals of Interest Using Parameters Available in the DLA's HMIRS
- Appendix A-4. Ranking of the USEPA IRIS Chemicals of Interest Using Selected Parameters from the U.S. Air Force's ERPIMS
- Appendix A-5. Ranking of the USEPA IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites with Chemical Detections) Combined Scoring
- Appendix A-6. Ranking of the USEPA IRIS Chemicals of Interest Using the Number of U.S. Air Force's ERP Sites at Which the Chemical Exceeds the USEPA Region 9 RSLs as the Evaluation Parameter
- Appendix A-7. Ranking of the USEPA IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring

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APPENDIX A-1

Methodology and Details of the Evaluation of USEPA IRIS Chemicals of Interest Due for Reassessment of Their Toxicity Values for Interest to the DoD and the U.S. Air Force

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1. BACKGROUND

The U.S. Environmental Protection Agency (USEPA) Office of Research and Development informed the Office of the Secretary of Defense that it planned to review/update all of its older (>10 years) Integrated Risk Information System (IRIS) files. Such updates will include revisions to toxicity and cancer potency values warranted by scientific information developed since institution or last update of the prevailing values. Some of these chemicals may be of interest to the Department of Defense (DoD) and/or of particular interest to the Air Force because revisions in their toxicity/carcinogenicity values may make the use of products more or less desirable and may affect the cost of remediation of environmental restoration sites contaminated with these chemicals. Several readily available databases were used to assess the potential DoD stake in the IRIS chemicals due for reevaluation, hereafter called the IRIS chemicals of interest.

The Hazardous Material Information Resource System (HMIRS) was used to evaluate the DoD's stake in the IRIS chemicals of interest. HMIRS is a DoD system developed and maintained by the Defense Logistics Agency (DLA) as a central repository for Material Safety Data Sheets (MSDS) for the United States government military services and civil agencies. The HMIRS provides these data for hazardous materials purchased by the federal government through the DoD and civil agencies. The system is intended to assist federal government personnel who handle, store, transport, use, or dispose hazardous materials. Querying this database provided a metric of the number of products purchased by the DLA that contain the IRIS chemicals of interest.

The Environmental Restoration Program (ERP) Information Management System (ERPIMS) was used to evaluate the Air Force stake in the IRIS chemicals of interest. The ERPIMS is the Air Force system for validation and management of data from environmental projects at all Air Force installations. The data it contains include analytical chemistry samples, test results, and site and location descriptions. The previous (Phase-I) query of this database conducted in January 2009 provided a metric of the number of Air Force installations and ERP sites contaminated with IRIS chemicals of interest. Although this query provided information on the number of sites at which IRIS chemicals of interest were detected, it did not provide information on the concentrations of the chemicals. Thus, whether the chemicals were present at concentrations that could pose unacceptable risk remained unknown. Therefore, a second (Phase-II) query was conducted in September 2009 that provided the maximum concentration detected of each of the IRIS chemicals of interest in soil and groundwater samples from Air Force ERP sites. This information was used to identify those chemicals found at Air Force ERP sites at concentrations exceeding those developed as Regional Screening Levels (RSLs) by Region 9 of the USEPA (USEPA Region 9, 2009). The RSLs are concentrations of selected chemicals in environmental media that are anticipated to not result in adverse health effects based on relatively conservative exposure scenarios.

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Priority List of Hazardous Substances was used to provide an indication of the interest of the environmental agencies in the IRIS chemicals of interest. The CERCLA requires that USEPA and the Agency for Toxic Substances and Disease Registry (ATSDR) prepare a list, in order of priority, of at least 100 hazardous substances that are most commonly found at facilities on the

National Priority List (NPL) and which are determined to pose the most substantial potential threat to human health due to their known or suspected toxicity to humans and the potential for human exposure to such substances. This database provided a metric of the interest the environmental and health agencies may have in the IRIS chemicals of interest.

2. SOURCE DATA DETAILS

2.1. IRIS Chemical List

A USEPA-derived table of IRIS chemicals, for which toxicity values had not been reviewed for at least ten years, was provided by the U.S. Air Force School of Aerospace Medicine (USAFSAM) Technical Services Division (OEHT). The table received had 497 entries. Five of these entries did not have Chemical Abstract Services Registry Numbers (CASRN): 2,4-/2,6-dinitrotoluene mixture; refractory ceramic fibers; uranium, soluble salts; nickel, soluble salts; and nickel refinery dust. Of the remaining 492 chemicals, 18 duplicate entries were found, which reduced the number of chemicals to 474. In one case following the initial data queries of the ERPIMS and the HMIRS, an erroneous CASRN was identified (see below). The chemical was eliminated from the evaluation and the remaining 473 chemicals were used as described in the remainder of this report.

The table of IRIS chemicals with toxicity values that had not been reviewed for at least ten years provided by the USAFSAM/OEHT included hexachlorodibenzo-p-dioxin (HxCDD), CASRN 034465-46-8. Beginning a CASRN with “0” is not consistent with CASRN convention. Without the “0”, 34465-46-8 is the CASRN for hexachlorodibenzodioxin (USEPA, 2008)—a reasonable synonym for hexachlorodibenzo-p-dioxin, which appeared in the provided list. However, a search of the IRIS website (<http://cfpub.epa.gov/ncea/iris/index.cfm>) for “34465-46-8” did not yield results. A search of the same IRIS website for “Hexachlorodibenzo-p-dioxin” identified an IRIS web page for “Hexachlorodibenzo-p-dioxin (HxCDD), mixture of 1,2,3,6,7,8-HxCDD and 1,2,3,7,8,9-HxCDD (CASRN 57653-85-7 and 19408-74-3).” Both of these chemicals are included in the list of IRIS chemicals of interest. Therefore, CASRN 34465-46-8 was not included in the evaluations reported here.

2.2. ATSDR 2007 CERCLA Priority List of Hazardous Substances

The CERCLA Priority List of Hazardous Substances was retrieved from the ATSDR web site (<http://www.atsdr.cdc.gov/cercla/07list.html>). This list ranks chemicals commonly found at sites on the NPL, which are determined to pose the greatest potential threat to human health due to their known or suspected toxicity and potential for human exposure at the NPL sites. The most recently updated list (2007) was used in this evaluation.

2.3. HMIRS Data Query Results

The USAFSAM/OEHT conducted a query of the HMIRS in March 2009 based on the CASRNs of IRIS chemicals that had not been updated for at least ten years. The query—yielding 151,413 records—provided information on several parameters for each of the queried CASRNs in the HMIRS including associations with: Stock Number, Item Name, Product Identification, Document Group Number, and Load Date. However, the information on some of these

parameters was incomplete as indicated in Table A-1a. The numbers of unique entries for each of the parameters are also provided in Table A-1a.

TABLE A-1a. Number of Associations among Queried HMIRS Parameters and the Number of Unique Entries for Each Parameter

Parameter	Parameter (number of associations)						
	CASRN	Stock No.	Item Name	Product I.D.	Doc. Grp. No.		
CASRN	151,413	135,125	52,303	151,413	151,41	3	
Stock No.		135,125	52,302	135,125	135,12	5	
Item Name			52,303	52,303	52,203		
Product I.D.				151,413	151,413		
Doc. Grp. No.					151,413		
Unique Entries		66,127	2,301	86,068	108,063		

2.4. ERPIMS Data Query Results

The Phase-I query results requested from the Air Force Center for Engineering and the Environment of the ERPIMS based on the CASRNs of IRIS chemicals that had not been updated for at least ten years were received 26 and 28 January 2009. The query was limited to samples taken since 1997 to provide an indication of chemicals and sites currently of interest to the Air Force and it yielded 1,467,232 records of the IRIS chemicals of interest while surveying 6,675 sites at 302 Air Force installations. All of the detections are associated with specific Air Force installations. However, of the detections, those of propylene glycol (57-55-6), o-dinitrobenzene (528-29-0), formic acid (64-18-6), allyl chloride (107-05-1), cyclohexanone (108-94-1), Simazine (122-34-9), isobutyl alcohol (78-83-1), and asbestos (1332-21-4) were not associated with specific sites.

The Phase-II query results of the ERPIMS provided information on the maximum concentration of each of the IRIS chemicals of interest for which there was an RSL. The results of this query were also limited to samples taken after 1997. These results were compared to the RSLs to identify those IRIS chemicals of interest present at sufficient concentrations in soil or groundwater to be of potential concern.

3. PHASE-I EVALUATION

3.1. IRIS Chemicals of Interest on the ATSDR CERCLA Priority List

The chemical CASRNs on the CERCLA Priority List of Hazardous Substances were compared to those of the IRIS chemicals of interest. The ATSDR ranks the chemicals on its priority list using an equation based on the chemical's frequency of occurrence at NPL sites, its toxicity, and

the potential for human exposure to the chemical (ATSDR, 2007). With this system, the maximum number of points for a chemical is 1800. Of the 275 chemicals on the ATSDR list of priority chemicals, 133 of them are among the 473 IRIS chemicals of interest. Those 133 chemicals are identified in Table A-2a at Appendix A-2. Forty-two of the IRIS chemicals of interest have ATSDR scores >900 (half the maximum number of points); seven of these 42 are inorganic chemicals.

3.2. IRIS Chemicals of Interest in the HMIRS

The HMIRS was queried to determine which of the IRIS chemicals of interest are represented among the products purchased by the DoD; 151,413 records were received on 386 of the IRIS chemicals of interest. An evaluation of the number of times each of the IRIS chemicals of interest is associated with any of the HMIRS parameters is available in the tables of Appendix A-3.

Stock Number was one of the HMIRS parameters queried, which resulted in 135,125 records of a possible 151,413. Of the 135,125 Stock Numbers represented in this query, about half (66,127) were unique. In the HMIRS, the first four digits of the Stock Number indicate the product type (paint, lubricant, etc.) and the query yielded product types associated with the IRIS chemicals of interest. Appendix A-3 has tables in which the IRIS chemicals of interest are ranked according to the number of times they are associated with Stock Numbers (Appendix A-3, Table A-3a), unique Stock Numbers (Appendix A-3, Table A-3b) and Stock Numbers with unique first four digits (Appendix A-3, Table A-3c).

The 20 most frequently associated chemicals by rank using each of the Stock Number types described above is provided in Table A-1b. Finding 12 of the chemicals common to all of the Stock Number types indicates that many of the chemicals are ingredients in a wide range of products purchased by the DoD, because each group of Stock Numbers (135,125) with the same first unique four digits (302) represents on average 447 products.

The association of IRIS chemicals of interest with Item Name was another parameter provided by the HMIRS query; 52,303 Item Name entries were found associated with the IRIS chemicals of interest. This represents only about 35% of the possible records—too limited to have utility as an indicator of potential DoD interest in these chemicals. Although not evaluated further, the ranking of the number of Item Names and the number of unique Item Names associated with each IRIS chemical of interest are provided Appendix A-3, Tables A-3d and A-3e, respectively

The numbers of associations of each IRIS chemical of interest with individual Product Identities were also provided by the HMIRS query. Product Identities were provided for every record in the HMIRS query results. Thus, this parameter likely provides the best indication of DoD stake in the IRIS chemicals of interest. The ranking of the number of Product Identity entries associated with each IRIS chemical of interest is provided at Appendix A-3, Table A-3f. Ethylbenzene and ethylene glycol are each associated with more than 10,000 products purchased by the DoD and combined account for 13.8% of the records received in the HMIRS query. The ranking of the IRIS chemicals of interest by their association with unique Product Identities is also provided at Appendix A-3 in Table A-3g. This ranking, however, likely reduces the utility of the Product Identity as an indicator of DoD interest in the chemical because multiple entries of

a single Product Identity are represented by the single unique Product Identity used in the evaluation.

TABLE A-1b. Rank in Descending Order of the IRIS Chemicals of Interest Most Frequently Associated with HMIRS Stock Number Types

Rank	Stock Number	Unique Stock Number	Unique 1 st 4 Digits Stock No.
1	Ethylene glycol^a	Ethylene glycol	Nickel
2	Ethylbenzene	Nickel	Copper
3	Nickel	Manganese	Methanol
4	Methanol	Copper	Manganese
5	Manganese	Ethylbenzene	1,1,1-Trichloroethane
6	Copper	Methanol	Molybdenum
7	n-Butanol	n-Butanol	Ethylene glycol
8	Dichloromethane	Ethyl acetate	Cadmium
9	Ethyl acetate	Dichloromethane	Silver
10	Propylene glycol	Propylene glycol	Arsenic, inorganic
11	1,1,1-Trichloroethane	1,1,1-Trichloroethane	Dichloromethane
12	Polychlorinated biphenyls	Molybdenum	White phosphorus
13	Molybdenum	Polychlorinated biphenyls	Ethylbenzene
14	Cyclohexanone	Cyclohexanone	Ethyl acetate
15	Isobutyl alcohol	Hydrogen chloride	Propylene glycol
16	Silver	Silver	Antimony
17	Hydrogen chloride	Cadmium	Phosphoric acid
18	Hydroquinone Phosp	Phosphoric acid	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)
19	Phosphoric acid	Hydroquinone	Methylene diphenyl diisocyanate (monomeric MDI)
20	1,6-Hexamethylene diisocyanate	Propylene glycol monomethyl ether	n-Heptane

a. Bolded font indicates ranking among top 20 associations for all three Stock Number types.

The numbers of associations of each IRIS chemical of interest with individual Document Group Numbers were also provided by the HMIRS query. As with Product Identity, Document Group Numbers were provided for every record in the HMIRS query results. Because the number of associations of each IRIS chemical of interest with Document Group Numbers and the ranking of these associations (Appendix A-3, Table A-3h) is the same as for Product Identities (Appendix A-3, Table A-3f), they have the same utility for indicating the potential interest of each chemical to the DoD when all of the Document Group Numbers are used. However, the Document Group Numbers do not provide any product information. Although not evaluated further the ranking of IRIS chemicals of interest based on their association with unique Document Group Numbers is provided in Appendix A-3 (Table A-3i).

The Document Group Numbers begin with three different letters—B, C, and Z—which provide some insight into when the records were entered into the HMIRS (Table A-1c). Table A-1c also provides the number of associations of each of the parameters in the HMIRS query results with the types of Document Group Numbers. Of all of the Document Group Numbers, 85,093 (56.2%) begin with B and 65,141 (43.0%) begin with C. The remaining 1,179 (0.8%) begin with Z. The short calendar period (<8 months) during which the substantial number of B-prefixed Document Group Numbers were entered likely indicates the loading of a backlog of MSDSs into

the HMIRS because fewer C- and Z-prefixed Document Group Numbers were loaded during the more recent seven-year period. All load dates of the Z-prefixed Document Group Numbers fall within those of the C-prefixed numbers, thus, these two groups were combined for further evaluation.

TABLE A-1c. Record Load Dates and Number of IRIS Chemicals of Interest Associations with HMIRS Types of Document Group Numbers

	Document Group Number			
	Total	B Prefix	C Prefix	Z Prefix
Earliest Load Date	3/7/2002	3/7/2002	3/12/2002	6/17/2002
Latest Load Date	3/6/2009	10/29/2002	3/6/2009	3/5/2009
CASRN	151,41 3	85,093	65,141	1,179
Stock No.	135,12 5	85,068	49,161	896
Item Name	52,203	25,811	25,638	854
Product I.D	151,41 3	85,093	65,141	1,179
Doc. Grp. No.	151,41 3	85,093	65,141	1,179
Unique Entries	108,063	60,425	47,009	629

The 20 chemicals most frequently associated with the total, B-prefixed, and C&Z-prefixed Document Group Numbers are ranked in Table A-1d. Comparing the chemical rankings of the of B- and C&Z-prefixed Document Group Numbers to those of all Document Group Numbers provides information on how the more recent DoD purchases has influenced the rankings of the chemicals. Cumene, antimony, inorganic arsenic, n-heptane, and propylene glycol monomethyl ether are among the top 20 IRIS chemicals of interest when ranking is done on the more recently loaded HMIRS records, while they do not appear among the top ten chemicals when all Document Group Numbers are used in the ranking. The rankings of all chemicals within the B- and C&Z-prefixed Document Group Numbers are at tabs Appendix A-3, Tables A-3j and A-3k, respectively.

TABLE A-1d. Rank in Descending Order of the IRIS Chemicals of Interest Most Frequently Associated with HMIRS Categories of Document Group Numbers

Rank	All Document Group Numbers	B-Document Group Numbers	C&Z-Document Group Numbers
1	Ethylbenzene^a	Ethylene glycol	Ethylbenzene
2	Ethylene glycol	Nickel	Ethylene glycol
3	Nickel	Manganese	Methanol
4	Methanol	Copper	Nickel
5	Manganese	Methanol	n-Butanol
6	Copper	Ethylbenzene	Manganese
7	n-Butanol	n-Butanol	Copper
8	Ethyl acetate	Dichloromethane	Propylene glycol
9	Dichloromethane	1,1,1-Trichloroethane	Ethyl acetate
10	Propylene glycol	Ethyl acetate	Molybdenum
11	1,1,1-Trichloroethane	Polychlorinated biphenyls	Cyclohexanone
12	Molybdenum	Propylene glycol	Cumene
13	Cyclohexanone	Molybdenum	Hydrogen chloride
14	Polychlorinated biphenyls	Isobutyl alcohol	1,6-Hexamethylene diisocyanate
15	Hydrogen chloride	Cyclohexanone	antimony
16	Silver	Hydrogen chloride	Phosphoric acid
17	Phosphoric acid	Silver	Arsenic, inorganic
18	Isobutyl alcohol	Phosphoric acid	n-Heptane
19	Hydroquinone	Hydroquinone	Silver
20	1,6-Hexamethylene diisocyanate	1,6-Hexamethylene diisocyanate	Propylene glycol monomethyl ether

a. Bolded font indicates ranking among top 20 associations for all three categories of Document Group Numbers.

3.3. IRIS Chemicals of Interest in the ERPIMS

The ERPIMS was queried to determine which of the IRIS chemicals of interest are represented among the chemicals of interest to the Air Force ERP. The query based on the IRIS chemicals of interest resulted in 1,467,232 records.

The number of times each IRIS chemical of interest is associated with an Air Force installation or an Air Force ERP site in the ERPIMS was evaluated as well as how many times each chemical was detected. The rankings of the top 20 IRIS chemicals of interest based on the number of installations, the number of sites, or the number of samples in which they were found is shown in Table A-1e. The complete ranking of these associations, by installations, sites, and total detects, can be found at Appendix A-4, Tables A-4a, A-4b, and A-4c, respectively.

Fifteen of the chemicals in Table A-1e are among the top ranked 20 chemicals in installation, site, and total detection associations. This fact notwithstanding, the number of Air Force installations at which a chemical was detected is too coarse a metric by which to gauge the impact a change in IRIS toxicity values may have on the Air Force. There is little difference in the representation of chemicals between the rankings by site and by detections; eight inorganic and seven organic chemicals are common to the top 20 chemicals associated with both parameters. When considering the inorganic chemicals, two items should be kept in mind: (1) the detections may indicate the presence of naturally occurring inorganic chemicals, and (2) these analyses are

run as analytical suites. Thus, while sampling and analysis may be conducted to determine the nature and extent of an actual inorganic contaminant, detections of other analytes common to the analytical suite will also be recorded when they are present at naturally occurring concentrations.

TABLE A-1e. Rank in Descending Order of the IRIS Chemicals of Interest Most Frequently Associated with Air Force Installations, ERP Sites, or ERP Detections

Rank	Air Force Installations	ERP Sites	ERP Detections
1	Dichloromethane^a	Arsenic, inorganic	Trichloroethylene
2	Ethylbenzene	Manganese	cis-1,2-Dichloroethylene
3	Trichloroethylene	Nickel	Manganese
4	Naphthalene	Copper	Arsenic, inorganic
5	Arsenic, inorganic	Dichloromethane	Nickel
6	Manganese	Cadmium	Copper
7	Selenium and compounds	Trichloroethylene	Tetrachloroethylene
8	Cadmium	Selenium and compounds	Dichloromethane
9	Copper	Trichloroethylene	Ethylbenzene
10	Phenanthrene	Ethylbenzene	Trichloroethylene
11	cis-1,2-Dichloroethylene	Mercury, elemental	trans-1,2-Dichloroethylene
12	Nickel	Beryllium and compounds	Cadmium
13	Tetrachloroethylene	cis-1,2-Dichloroethylene	Beryllium and compounds
14	Mercury, elemental	Di(2-ethylhexyl)phthalate (DEHP)	Chlorobenzene
15	Cumene	Tetrachloroethylene	Selenium and compounds
16	Silver	Silver	1,1-dichloroethane
17	Di(2-ethylhexyl)phthalate (DEHP)	Antimony	Mercury, elemental
18	Fluoranthene	Fluoranthene	1,1,1,2-tetrachloroethane
19	Beryllium and compounds	Phenanthrene Cumene	ne
20	1,4-Dichlorobenzene	Pyrene	Fluoranthene

a. Bolded font indicates ranking among top 20 associations for all three categories of Document Group Numbers.

The rankings of the numbers of associations of each IRIS chemical of interest with soil, groundwater, soil gas, surface water, and sediment samples from Air Force ERP sites also are provided at Appendix A-4, Tables A-4d, A-4e, A-4f, A-4g, and A-4h, respectively. The top-ranked 20 chemicals for each of these environmental media are provided in Table A-1f. These ranking are not provided for comparison among the media because different chemicals would be expected in many of them. The rankings are instead provided as an indication of the chemicals that likely will be of greatest interest to the Air Force ERP by the media in which they are found. As indicated above, the detection of inorganic chemicals may not be the result of contamination but the occurrence of naturally occurring concentrations of these elements.

TABLE A-1f. Rank in Descending Order of the IRIS Chemicals of Interest Most Frequently Associated with Selected Sample Type in the ERPIMS

Rank	Soil Samples	Groundwater Samples	Soil-gas Samples	Surface-water Samples	Sediment Samples
1	Arsenic, inorganic	Trichloroethylene	Trichloroethylene	Manganese	Manganese
2	Copper cis-1,2-Dichlor	oethylene	Ethylbenzene	1,1,1,2-Tetrachloroethane	Arsenic, inorganic
3	Nickel Manganese		Tetrachloroethylene	Arsenic, inorganic	Copper
4	Manganese Tetrachloroethylene		cis-1,2-Dichloroethylene	Copper	Nickel
5	Beryllium and compounds	Trans-1,2-dichloroethylene	dichloromethane Trichloroethylene		Cadmium
6	Cadmium Ethylbenzene		1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	cis-1,2-Dichloroethylene Beryllium and compounds	
7	Mercury, elemental	Nickel	Dichlorodifluoromethane	Nickel	Mercury, elemental
8	Fluoranthene 1,1-Dichloroethane		Trichlorofluoromethane	Selenium and compounds	Fluoranthene
9	Pyrene Naphthalene		1,1-Dichloroethane	Antimony	Pyrene
10	Selenium and compounds	Arsenic, inorganic	Carbon disulfide	Cadmium	Chrysene
11	Chrysene Chlorobenzen	e	Chlorobenzene	Molybdenum	Benzo(b)fluoranthene
12	Benzo [a] pyrene	Dichloromethane	Styrene	Silver	Benzo [a] pyrene
13	Benzo(b)fluoranthene Cumene		n-Heptane	Mercury, elemental	Benzo(a)anthracene
14	Dichloromethane	1,1,1,2-Tetrachloroethane	Carbon tetrachloride	Dichloromethane	Phenanthrene
15	Benzo(a)anthracene 1,2-Dichloroethane		1,2-Dichlorobenzene	Tetrachloroethylene	Benzo(k)fluoranthene
16	Phenanthrene 1,4-Dichlorobenzene		1,2-dichloroethane	Beryllium and compounds	Selenium and compounds
17	Naphthalene Copper		trans-1,2-Dichloroethylene	Naphthalene Indeno[1,2,3-cd]pyrene	
18	Antimony 1,2-Dichlorobenzene		1,4-Dichlorobenzene	Chlorobenzene	Benzo[g,h,i]perylene
19	Indeno[1,2,3-cd]pyrene	Selenium and compounds	1,3-Dichlorobenzene	Di(2-ethylhexyl)phthalate (DEHP)	Silver
20	Benzo(k)fluoranthene Carbon tetrachloride		1,1,2,2-Tetrachloroethane	trans-1,2-Dichloroethylene	p,p'-Dichlorodiphenyltrichloroethane (DDT)

3.4. Agency Comparison, Phase-I

The chemical CASRNs of the IRIS chemicals of interest were compared to those on the ATSDR NPL priority list, the HMIRS, and the ERPIMS. Of the 473 chemicals on the IRIS list, 133 of them are among the 275 chemicals on the 2007 CERCLA Priority List of Hazardous Substances (ATSDR, 2007), 386 are chemicals or ingredients of products purchased by the DLA, and 167 of them are found at Air Force ERP sites.

The ATSDR ranks the chemicals on its priority list using an equation based on the chemical's frequency of occurrence at NPL sites, its toxicity, and the potential for human exposure to the chemical (ATSDR, 2007). With this system, the maximum number of points assigned to a chemical is 1800. The ranking of the IRIS chemicals of interest using the points assigned by the ATSDR is in bold font at Appendix A-5, Table A-5a. Inorganic arsenic has the greatest number of points (1672.58) among the IRIS chemicals of interest. Of the chemicals high on the ATSDR list (those with more than 900 points, or more than half the available points), nickel is most commonly associated with HMIRS Product Identity entries. Of the IRIS chemicals of interest with more than 900 ATSDR points, several are organic chemicals found at more than 10% of Air Force ERP sites: trichloroethylene (17.1%), tetrachloroethylene (12.7%), di(2-ethylhexyl)phthalate (DEHP) (12.7%), Benzo [a] pyrene (10.5%), p,p'-dichlorodiphenyltrichloroethane (DDT) 10.5%), and benzo(a)anthracene (10.4%). Of the IRIS chemicals of interest with more than 900 ATSDR points, five are inorganic chemicals found at more than 10% of the Air Force's ERP sites. However, these detections may, in some cases, represent naturally occurring background concentrations of the chemicals.

The IRIS chemicals of interest were ranked based on the number of Product Identity entries in the HMIRS, which indicates the chemical was the product or an ingredient of a product purchased by the DoD. The HMIRS Product Identity was selected as the indicator parameter because it and the Document Group Numbers were the most frequently provided parameters in the database (Table A-1a). The results of this ranking are in bold font at Appendix A-5, Table A-5b. Ethylbenzene is associated with 10,696 and ethylene glycol with 10,234 of the product entries in the HMIRS database, which combined account for almost 14% of the 151,413 records in the HMIRS associated with the IRIS chemicals of interest. Unfortunately, the data in the HMIRS do not provide information on the amounts of material represented by each of the records for the products. However, because ethylbenzene is the only BTEX (benzene, toluene, ethylbenzene, and xylene) compound among the IRIS chemicals of interest, it may be an indicator of fuel purchases by the DoD and ethylene glycol an indicator of antifreeze purchases.

To rank the IRIS chemicals of interest in the ERPIMS database for likely interest to the Air Force ERP, the number of sites at which the chemical was detected was selected as the ranking metric. The number of detects was rejected as an indicator because the amount of sampling conducted at any site is dependent on a number of factors that could not be evaluated sufficiently. In addition, for communication purposes, relating the chemicals to the number of ERP sites rather than ERP samples is expected to be more effective. The rank of the IRIS chemicals of interest based on the number of ERPIMS sites at which they occurred is in bold font at Appendix A-5, Table A-5c. Of the IRIS chemicals of interest, ten have been identified at more than 1,000 of the 6,675 ERP sites. Of the top ten, six are inorganic chemicals, which in

some of the cases may indicate the presence of naturally occurring chemicals rather than contamination. The four organic chemicals among the top ten are dichloromethane, trichloroethylene, naphthalene, and ethylbenzene. Unfortunately, information is not readily available on the frequency with which specific chemicals drive risk assessments or site cleanup requirements.

In order to combine the information in the three databases (ATSDR, HMIRS, ERPIMS) and use it to rank the IRIS chemicals of interest, the greatest number of points assigned by the ATSDR to a chemical (1672.58), the greatest number of Product Identity entries associated with a chemical (10,696), and the greatest number of Air Force ERP sites at which a chemical was detected (1,448) were each set equal to a score of 10,000. Points (ATSDR), numbers of Product Identity associations (HMIRS), and numbers of site associations (ERPIMS) less than the maximums were set at their fractional value of the maximum for their respective data sets. The values for each chemical were summed and the results (scores) were ranked. The results of this ranking are in bold font at Appendix A-5, Table A-5d. Of the nine chemicals with more than 15,000 of the possible score of 30,000, six of them are inorganic chemicals (nickel, arsenic, manganese, copper, cadmium, and mercury) and three are organic chemicals (ethylbenzene, dichloromethane, and trichloroethylene).

To better estimate DoD and Air Force interest in the IRIS chemicals of interest, the ATSDR values were eliminated from the ranking described above. The results of ranking using only the HMIRS and ERPIMS scores are in bold font at Appendix A-5, Table A-5e. Of the seven chemicals with more than 10,000 of the possible score of 20,000, five are inorganic and two are organic chemicals. Of the inorganic chemicals (manganese, nickel, copper, arsenic, and cadmium) with scores of more than 10,000, more than half of the scores are from the ERPIMS contribution. This high ERPIMS component may in some cases reflect the presence of naturally occurring chemicals rather than contamination. The two organic chemicals (ethylbenzene and dichloromethane) with combined scores of more than 10,000 are well represented in both the HMIRS and the ERPIMS, while ethylene glycol's score of 9,630 is due almost entirely by the HMIRS contribution.

4. PHASE-II EVALUATION

To further evaluate the potential for changes in the IRIS toxicity values to impact the ERP, the maximum concentrations of IRIS chemicals of interest found in soil and groundwater were compared to the USEPA Region 9 RSLs. The RSLs are the result of the recent harmonization of the USEPA Region 9 Preliminary Remediation Goals with similar risk-based screening levels used by Regions 3 and 6.

4.1. IRIS Chemicals of Interest in the ERPIMS at Concentrations Exceeding RSLs

The IRIS chemicals of interest are ordered by the number of Air Force ERP sites at which they were detected since 1997 at Appendix A-6, Table A-6a. The IRIS chemicals of interest are arranged by the number of soil sites plus groundwater sites with concentrations that exceed the residential soil and tap water RSLs at Appendix A-6, Table A-6a. Notice that for a few chemicals (arsenic, trichloroethylene, hydrazine/hydrazine sulfate, formic acid) the number of RSL

exceedances is greater than the number of sites at which the chemicals were detected, indicating that at some sites both soil and groundwater concentrations of the chemicals exceeded the RSLs.

One hundred and eight chemicals found at ERP sites exceed their RSLs in soil or groundwater samples from at least one site (Appendix A-6, Table A-6a) and for 29 of those chemicals there are more than 100 occurrences of the RSLs being exceeded at ERP soil and groundwater sites (Appendix A-6, Table A-6a and Table A-1g). The number of sites (1,641) with soil and/or groundwater arsenic concentrations exceeding the RSLs is twice the number of sites contaminated with naphthalene (818)—the second most frequently recorded chemical at concentrations exceeding its RSLs. Arsenic and cadmium are the only two inorganic IRIS chemicals of interest for which there are more than 100 occurrences of the RSLs being exceeded at ERP soil and groundwater sites.

TABLE A-1g. Chemicals for Which There are More Than 100 Occurrences of the RSLs Being Exceeded at ERP Soil and Groundwater Sites

Chemical	Number of ERP Sites with Concentrations Exceeding RSLs		
	Residential Soil	Tap Water	Residential Soil + Tap Water
Arsenic, inorganic	875	766	1641
Naphthalene 160		658	818
Benzo [a] pyrene	534	195	729
Trichloroethylene 46		585	631
Tetrachloroethylene 42		523	565
Benzo(b)fluoranthene 372		177	549
Ethylbenzene 111		432	543
Benzo(a)anthracene 365		164	529
Indeno[1,2,3-cd]pyrene 323		151	474
Dibenzo(a,h)anthracene 330		127	457
1,2-Dichloroethane 3		356	359
Di(2-ethylhexyl)phthalate (DEHP)	12	325	337
Dichloromethane 16		286	302
Bromodichloromethane 1		280	281
1,4-Dichlorobenzene 18		258	276
1,1,2-Trichloroethane 6		220	226
Benzo(k)fluoranthene 135		81	216
Carbon tetrachloride	3	212	215
Dibromochloromethane 2		206	208
cis-1,2-Dichloroethylene 1		196	197
Dieldrin 73		100	173
1,1-Dichloroethane 3		165	168
Mercury, elemental	27	133	160
1,2-Dichloropropane 2		130	132
1,1,2,2-Tetrachloroethane 6		121	127
Chrysene 49		68	117
Methyl tert-butyl ether	1	109	110
Cadmium 21		89	110
Heptachlor epoxide	22	82	104

4.2. Agency Comparison, Phase II

Of the 167 IRIS chemicals of interest found at Air Force ERP sites, 108 of them are found at concentrations that exceed RSLs in soil or groundwater (Appendix A-6, Table A-6b). To compare this revised list of chemicals to those on the ATSDR priority list and the HMIRS list, Table A-5c of Appendix A-5 was restructured and the ERPIMS data were replaced with the data from Appendix A-6 (Appendix A-7, Table A-7a). The ERPIMS data chemical parameter used for the comparison is the sum of the number of soil sites and groundwater sites in which the residential soil RSL and tap water RSL, respectively, are exceeded by the concentrations found in those media. As above, the maximum was set to a score of 10,000. Points (ATSDR), numbers of Product Identity associations (HMIRS), and numbers of site associations (ERPIMS) less than the maximums were set at their fractional value of the maximum. The values for each chemical were summed and the results (scores) were ranked. The results of this ranking are in bold font at the Appendix A-7, Table A-7b. Only two chemicals—arsenic and ethylbenzene—had scores greater than 15,000 of the possible score of 30,000.

Again, to better estimate DoD and Air Force interest in the IRIS chemicals of interest, the ATSDR values were eliminated from the ranking described above. The results of ranking using only the HMIRS and RSL-ERPIMS scores are in bold font at Appendix A-7, Table A-7c. With the HMIRS scores removed, ethylbenzene and arsenic were still the only two chemicals with combined scores greater than 10,000 of the possible score of 20,000. Interestingly, of the 20 chemicals with combined RSL-ERPIMS HMIRS scores greater than 3,000, seven of them are ranked in the top 20 solely because of their HMIRS score, indicating that the supply side of the DoD may have interest in the toxicity values of very different chemicals than the remediation programs.

5. REFERENCES

ATSDR, 2007. 2007 CERCLA Priority List of Hazardous Substances that will be the Subject of Toxicological Profiles and Support Document.

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USEPA Region 9, 2009. Preliminary Remediation Goals – Screening Levels for Chemical Contaminants. <http://www.epa.gov/region09/superfund/prg/index.html> accessed 1 October 2009.

6. LIST OF ACRONYMS

ATSDR	Agency for Toxic Substances and Disease Registry
BTEX	benzene, toluene, ethylbenzene, and xylenes
CASRN	Chemical Abstract Services Registry Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DDT	p,p'-dichlorodiphenyltrichloroethane
DEHP	di(2-ethylhexyl)phthalate
DLA	Defense Logistics Agency
DoD	United States Department of Defense
ERP	Environmental Restoration Program
ERPIMS	Environmental Restoration Program Information Management System (Air Force)
HMIRS	Hazardous Material Information Resource System
HxCDD	hexachlorodibenzo-p-dioxin
IRIS	Integrated Risk Information System (USEPA)
MSDS	Material Safety Data Sheet
NPL	National Priorities List
OEHT	Occupational and Environmental Health Division, Technical Services Branch (USAFSAM)
RSL	Regional Screening Level
USAFSAM	United States Air Force School of Aerospace Medicine
USEPA	United States Environmental Protection Agency

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APPENDIX A-2

Ranking of the USEPA IRIS Chemicals of Interest Using the ATSDR CERCLA Priority List of Hazardous Substances Points

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TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores

NAME	CASRN	ATSDR POINTS	2007 RANK
Arsenic, inorganic	7440-38-2	1,672.58	1
Mercury, elemental	7439-97-6	1,504.69	3
Polychlorinated biphenyls	1336-36-3	1,365.78	5
Cadmium 7440-43	-9	1,324.22	7
Benzo [a] pyrene	50-32-8	1,312.45	9
Benzo(b)fluoranthene 205-99	-2	1,266.55	10
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	12
Arochlor 1254	11097-69-1	1,182.63	13
Dibenzo(a,h)anthracene 53-70-	3	1,165.88	15
Trichloroethylene 79-01-	6	1,154.73	16
Dieldrin 60-57-	1	1,150.91	17
Chromium (VI)	18540-29-9	1,149.98	18
White phosphorus	7723-14-0	1,144.77	19
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	1,132.49	21
Hexachlorobutadiene 87-68-	3	1,129.63	22
Creosote 8001-58	-9	1,124.32	23
Aldrin 309-00	-2	1,117.22	24
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	25
Benzidine 92-87-	5	1,114.24	26
Cyanide, free	57-12-5	1,099.48	28
Toxaphene 8001-35	-2	1,086.65	31
gamma-Hexachlorocyclohexane 58-89-	9	1,081.63	32
Tetrachloroethylene 127-18	-4	1,080.43	33
Heptachlor	76-44-8	1,072.67	34
beta-Hexachlorocyclohexane 319-85	-7	1,060.22	36
Disulfoton 298-04	-4	1,058.85	38
Benzo(a)anthracene 56-55-	3	1,057.96	39
Endrin 72-20-	8	1,048.57	41
Beryllium and compounds	7440-41-7	1,046.12	42
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	43
1,2-Dibromo-3-chloropropane 96-12-	8	1,035.55	44
Pentachlorophenol 87-86-	5	1,028.01	45
Heptachlor epoxide	1024-57-3	1,027.12	46
Carbon tetrachloride	56-23-5	1,023.32	47
Arochlor 1016	12674-11-2	1,014.33	51
Dibutyl phthalate	84-74-2	1,007.49	52
Nickel 7440-02	-0	1,005.40	53
Endosulfan 115-29	-7	1,004.65	54
Methoxychlor 72-43-	5	994.47	61
Benzo(k)fluoranthene 207-08	-9	981.26	62
Cacodylic acid	75-60-5	922.06	75
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	76
Naphthalene 91-20-	3	896.67	78

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Dichloromethane 75-09-	2	888.96	80
2,4,6-Trinitrotoluene 118-96	-7	883.59	82
Hydrazine/hydrazine sulfate	302-01-2	864.41	84
1,2-Dichloroethane 107-06	-2	863.99	85
2,4,6-Trichlorophenol 88-06-	2	863.71	86
2,4-Dinitrophenol 51-28-	5	860.45	87
Bis(chloroethyl)ether 111-44	-4	859.88	88
Asbestos 1332-21	-4	841.54	90
Chlorine 7782-50	-5	840.37	91
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	92
Hexachlorobenzene 118-74	-1	838.34	93
2,4-Dinitrotoluene 121-14	-2	837.88	94
Ethion 563-12	-2	834.03	96
1,1,1-Trichloroethane 71-55-	6	833.81	97
Uranium, natural	7440-61-1	833.41	98
Ethylbenzene 100-41	-4	832.13	99
Radium 226,228	7440-14-4	828.07	100
1,3,5-Trinitrobenzene 99-35-	4	820.17	103
Chlorobenzene 108-90	-7	819.69	104
Fluoranthene 206-44	-0	812.40	110
N-Nitroso-di-N-propylamine 621-64	-7	811.05	112
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	115
Manganese 7439-96	-5	807.90	117
Coke oven emissions	8007-45-2	807.07	118
Chlorpyrifos 2921-88	-2	804.93	127
Copper 7440-50	-8	804.86	128
Hydrogen cyanide	74-90-8	803.08	133
Chrysene 218-01	-9	802.10	137
Merphos oxide	78-48-8	797.88	141
Parathion 56-38-	2	784.14	145
1,1,2,2-Tetrachloroethane 79-34-	5	782.15	146
Selenium and compounds	7782-49-2	778.98	147
technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	148
Trifluralin 1582-09	-8	770.12	150
Pentachlorobenzene 608-93	-5	753.58	155
Ammonia 7664-41	-7	745.55	157
1,4-Dichlorobenzene 106-46	-7	737.32	159
1,1-Dichloroethane 75-34-	3	736.23	160
Acenaphthene 83-32-	9	731.25	161
1,1,2-Trichloroethane 79-00-	5	724.96	163
1,2-Diphenylhydrazine 122-66	-7	713.90	167
4-Methylphenol 106-44	-5	707.83	170
1,2-Dichlorobenzene 95-50-	1	704.91	172
trans-1,2-Dichloroethylene 156-60	-5	704.04	173
Indeno[1,2,3-cd]pyrene 193-39	-5	703.30	174
Carbon disulfide	75-15-0	702.55	176

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Ethyl chloride	75-00-3	693.90	183
Dibenzofuran 132-64	-9	689.19	186
2,4-Dimethylphenol 105-67	-9	685.76	188
Butyl benzyl phthalate	85-68-7	659.38	195
2-Methylphenol 95-48-	7	658.66	196
Hexachloroethane 67-72-	1	653.10	197
N-Nitrosodimethylamine 62-75-	9	650.71	199
1,2,4-Trichlorobenzene 120-82	-1	647.30	200
Bromoform 75-25-	2	643.53	201
1,3-Dichlorobenzene 541-73	-1	631.41	203
N-Nitrosodiphenylamine 86-30-	6	624.79	205
2,4-Dichlorophenol 120-83	-2	616.45	209
1,4-Dioxane 123-91	-1	616.29	210
Fluorine, soluble fluoride	7782-41-4	613.28	211
Nitrite 14797-65	-0	612.64	212
Silver 7440-22	-4	612.19	214
Nitrate 14797-55	-8	610.66	216
Antimony 7440-36	-0	605.37	219
2,4,5-Trichlorophenol 95-95-	4	604.83	222
Tricresol 1319-77	-3	602.74	227
Chlordane (technical)	12789-03-6	602.62	228
Dimethoate 60-51-	5	602.61	229
Arsine 7784-42	-1	602.42	234
Naled 300-76	-5	602.32	235
Dichlorvos 62-73-	7	601.64	240
Mercuric chloride	7487-94-7	601.45	241
Formaldehyde 50-00-	0	599.64	244
2-Chlorophenol 95-57-	8	599.62	245
Phenanthrene 85-01-	8	597.68	246
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	248
Dibromochloromethane 124-48	-1	580.59	249
Diuron 330-54	-1	579.16	250
Butylate 2008-41	-5	578.43	251
N,N-Dimethylformamide 68-12-	2	578.23	252
Pyrene 129-00	-0	577.95	253
p-Nitrophenol 100-02	-7	567.79	257
Phosphine 7803-51	-2	559.74	259
2,6-Dinitrotoluene 606-20	-2	555.20	261
Methyl parathion	298-00-0	545.83	264
di(2-ethylhexyl)Adipate 103-23	-1	540.20	267
cis-1,2-Dichloroethylene 156-59	-2	533.15	270
Styrene 100-42	-5	532.70	271
Carbaryl 63-25-	2	530.98	272
Acrylonitrile 107-13	-1	528.28	274
Picloram 1918-02	-1		
Captafol	2425-06-1		

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Dodine 2439-10	-3		
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7		
Benzyl chloride	100-44-7		
Benzaldehyde	100-52-7		
Nitric Oxide	10102-43-9		
Thallium nitrate	10102-45-1		
Express	101200-48-0		
Chlorpropham 101-21	-3		
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		
Methamidophos 10265-92	-6		
Azobenzene	103-33-3		
Resmethrin 10453-86	-8		
Caprolactam	105-60-2		
N-Nitroso-N-methylethylamine	10595-95-6		
Monchloramine 10599-90	-3		
1,4-Dibromobenzene 106-37	-6		
p-Chloroaniline 106-47	-8		
Quinone 106-51	-4		
1,2-Epoxybutane	106-88-7		
Epichlorohydrin 106-89	-8		
Allyl chloride	107-05-1		
Ethylene diamine	107-15-3		
Glyphosate	1071-83-6		
Allyl alcohol	107-18-6		
Propargyl alcohol	107-19-7		
Ethylene glycol	107-21-1		
Chloromethyl methyl ether	107-30-2		
Propylene glycol monomethyl ether	107-98-2		
Vinyl acetate	108-05-4		
Maleic anhydride	108-31-6		
3-Methylphenol	108-39-4		
m-Phenylenediamine 108-45	-2		
Bis(2-chloroisopropyl) ether	108-60-1		
Cyclohexylamine	108-91-8		
Cyclohexanone	108-94-1		
1-Chlorobutane	109-69-3		
2-Methoxyethanol 109-86	-4		
Furan	110-00-9		
2-Ethoxyethanol 110-80	-5		
Pyridine 110-86	-1		
N-Nitrosodiethanolamine	1116-54-7		
Adiponitrile 111-69	-3		
Bis(2-chloroethoxy)methane 111-91	-1		
Baygon 114-26	-1		
Aldicarb 116-06	-3		

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Decabromodiphenyl ether (DBDPE)	1163-19-5		
3,3-Dimethylbenzidine 119-93	-7		
Anthracene 120-12	-7		
Nickel subsulfide	12035-72-2		
Thallium selenite	12039-52-0		
Dimethyl terephthalate (DMT)	120-61-6		
Zineb	12122-67-7		
Triethylamine 121-44	-8		
N,N-Dimethylaniline	121-69-7		
Malathion	121-75-5		
Simazine 122-34	-9		
Diphenylamine	122-39-4		
Propham	122-42-9		
p-Chlorophenyl methyl sulfide	123-09-1		
Hydroquinone 123-31	-9		
Maleic hydrazide	123-33-1		
Maneb 12427-38	-2		
Dimethylamine 124-40	-3		
Methacrylonitrile	126-98-7		
Antimony trioxide	1309-64-4		
Thallic oxide	1314-32-5		
Vanadium pentoxide	1314-62-1		
Zinc phosphide	1314-84-7		
4,6-Dinitro-o-cyclohexyl phenol	131-89-5		
Captan 133-06	-2		
Folpet 133-07	-3		
Chloramben 133-90	-4		
Nickel carbonyl	13463-39-3		
Quinalphos 13593-03	-8		
Phenmedipham 13684-63	-4		
Thiram 137-26	-8		
Propazine 139-40	-2		
Aramite 140-57	-8		
Bidrin 141-66	-2		
Ethyl acetate	141-78-6		
n-Heptane	142-82-5		
Triethylene glycol monobutyl ether	143-22-6		
Sodium cyanide	143-33-9		
Diisopropyl methylphosphonate	1445-75-6		
Endothall	145-73-3		
Sodium diethyldithiocarbamate	148-18-5		
Merphos	150-50-5		
Potassium cyanide	151-50-8		
Ethyleneimine 151-56	-4		
Napropamide 15299-99	-7		
Carbofuran	1563-66-2		

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Alar 1596-84	-5		
Alachlor 15972-60	-8		
Chromium III, insoluble salts	16065-83-1		
Prometon 1610-18	-0		
Methyl tert-butyl ether	1634-04-4		
Aldicarb sulfone	1646-88-4		
Ethephon 16672-87	-0		
Methomyl 16752-77	-5		
Bromoxynil 1689-84	-5		
Bromoxynil octanoate	1689-99-2		
Benomyl 17804-35	-2		
Isopropyl methyl phosphonic acid	1832-54-8		
Dacthal	1861-32-1		
Benefin 1861-40	-1		
Chlorothalonil	1897-45-6		
Oryzalin 19044-88	-3		
Paraquat 1910-42	-5		
Atrazine 1912-24	-9		
Benzo[g,h,i]perylene 191-24	-2		
Dicamba 1918-00	-9		
Propachlor 1918-16	-7		
Vernam 1929-77	-7		
Nitrapyrin	1929-82-4		
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3		
Oxadiazon 19666-30	-9		
p,p'-Dibromodiphenyl ether	2050-47-7		
Aluminum phosphide	20859-73-8		
Acenaphthylene 208-96	-8		
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		
Metribuzin 21087-64	-9		
Fluometuron 2164-17	-2		
Cyanazine 21725-46	-2		
Molinate 2212-67	-1		
Fenamiphos 22224-92	-6		
Triallate	2303-17-5		
Phosolone	2310-17-0		
Propargite 2312-35	-8		
Oxamyl 23135-22	-0		
Thiophanate-methyl	23564-05-8		
Mirex	2385-85-5		
Pronamide 23950-58	-5		
Mepiquat chloride	24307-26-4		
Pentachlorocyclopentadiene 25329-35	-5		
Sodium azide	26628-22-8		
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0		
Norflurazon	27314-13-2		

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Thiobencarb 28249-77	-6		
Pirimiphos-methyl	29232-93-7		
Acephate 30560-19	-1		
Pentabromodiphenyl ether	32534-81-9		
Octabromodiphenyl ether	32536-52-0		
Linuron	330-55-2		
Amitraz 33089-61	-1		
Asulam 3337-71	-1		
Diazomethane 334-88	-3		
Isopropalin 33820-53	-0		
Tebuthiuron 34014-18	-1		
Acetochlor 34256-82	-1		
Diflubenzuron 35367-38	-5		
Pentafluoroethane 354-33	-6		
Imazalil 35554-44	-0		
Hexabromodiphenyl ether	36483-60-0		
Iprodione 36734-19	-7		
Tetraethyldithiopyrophosphate 3689-24	-5		
Fosetyl-al 39148-24	-8		
Danitol	39515-41-8		
Tetrabromodiphenyl ether	40088-47-9		
Pendimethalin	40487-42-1		
Oxyfluorfen	42874-03-3		
Bayleton 43121-43	-3		
Difenzoquat	43222-48-6		
Cyanogen 460-19	-5		
Carbonyl sulfide	463-58-1		
Tribromodiphenyl ether	49690-94-0		
4-Aminopyridine 504-24	-5		
Vinclozolin 50471-44	-8		
Potassium silver cyanide	506-61-6		
Silver cyanide	506-64-9		
Chlorine cyanide	506-77-4		
t-Butyl chloride	507-20-0		
Chlorobenzilate 510-15	-6		
Metolachlor	51218-45-2		
Hexazinone 51235-04	-2		
Pydrin 51630-58	-1		
Ethyl carbamate	51-79-6		
Propylene glycol monoethyl ether	52125-53-8		
Cypermethrin 52315-07	-8		
Carboxin 5234-68	-4		
Permethrin 52645-53	-1		
o-Dinitrobenzene 528-29	-0		
2-Chloroacetophenone 532-27	-4		
Barium cyanide	542-62-1		

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Bis(chloromethyl) ether	542-88-1		
Copper cyanide	544-92-3		
N-Nitrosodiethylamine	55-18-5		
Carbosulfan	55285-14-8		
Dimethipin 55290-64	-7		
Nitroguanidine 556-88	-7		
Zinc cyanide	557-21-1		
Tributyltin oxide	56-35-9		
Thallium acetate	563-68-8		
Strychnine 57-24-	9		
Propylene glycol	57-55-6		
beta-Propiolactone	57-57-8		
2,6-Dimethylphenol 576-26	-1		
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7		
Metalaxyl 57837-19	-1		
Tridiphan 58138-08	-2		
2,3,4,6-Tetrachlorophenol 58-90-	2		
Terbacil 5902-51	-2		
Calcium cyanide	592-01-8		
Vinyl bromide	593-60-2		
Dibromodichloromethane 594-18	-3		
Fluridone 59756-60	-4		
1,1,2-Trichloropropane 598-77	-6		
d-Limonene 5989-27	-5		
Propiconazole 60207-90	-1		
Furmecycloz 60568-05	-0		
1,2,4-Tribromobenzene 615-54	-3		
Phenylmercuric acetate	62-38-4		
Acifluorfen, sodium	62476-59-9		
Methyl isocyanate	624-83-9		
Aniline 62-	53-3		
Sodium fluoroacetate	62-74-8		
Selenourea 630-10	-4		
1,1,1,2-Tetrachloroethane	630-20-6		
Ammonium acetate	631-61-8		
Nonabromodiphenyl ether	63936-56-1		
Formic acid	64-18-6		
Diethyl sulfate	64-67-5		
Chlorsulfuron 64902-72	-3		
Avermectin B1	65195-55-3		
Thallium carbonate	6533-73-9		
Cyromazine 66215-27	-8		
Flutolanil 66332-96	-5		
Tralomethrin 66841-25	-6		
Amdro	67485-29-4		
Methanol 67-56-	1		

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Prochloraz 67747-09	-5		
Cyhalothrin/karate	68085-85-8		
Baythroid 68359-37	-5		
Fluvalinate 69409-94	-5		
Haloxypop-methyl	69806-40-2		
Hexachlorophene 70-30-	4		
Propanil 709-98	-8		
n-Butanol 71-36-	3		
Fomasafen 72178-02	-0		
Prometryn	7287-19-6		
Phosmet 732-11	-6		
Sethoxydim 74051-80	-2		
Apollo 74115-24	-5		
Ally 74223-64	-6		
Molybdenum	7439-98-7		
Thallium (I) sulfate	7446-18-6		
Selenium sulfide	7446-34-6		
Bromomethane 74-83-	9		
Bromochloromethane 74-97-	5		
Acetaldehyde 75-07-	0		
Bromodichloromethane 75-27-	4		
Chlorodifluoromethane 75-45-	6		
Propyleneimine 75-55-	8		
Propylene oxide	75-56-9		
Bromotrichloromethane 75-62-	7		
Trichlorofluoromethane 75-69-	4		
Dichlorodifluoromethane 75-71-	8		
Dalapon (sodium salt)	75-99-0		
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		
Trichloroacetic acid	76-03-9		
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		
Hydrogen chloride	7647-01-0		
Glycidaldehyde 765-34	-4		
Assure 76578-14	-8		
Phosphoric acid	7664-38-2		
Paclobutrazol 76738-62	-0		
Glufosinate-ammonium	77182-82-2		
Trichlorocyclopentadiene 77323-84	-3		
Lactofen 77501-63	-4		
Aluminum sulfamate	7773-06-0		
Dimethyl sulfate	77-78-1		
Selenious acid	7783-00-8		
Thallium chloride	7791-12-0		
Tetraethyl lead	78-00-2		
Savey 78587-05	-0		
Isophorone	78-59-1		

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Isobutyl alcohol	78-83-1		
1,2-Dichloropropane 78-87-	5		
Acrylamide 79-06-	1		
Acrylic acid	79-10-7		
Methyl chlorocarbonate	79-22-1		
Harmony 79277-27	-3		
2-Nitropropane 79-46-	9		
Bisphenol A	80-05-7		
Demeton 8065-48	-3		
1,1,1,2-Tetrafluoroethane 811-97	-2		
Imazaquin 81335-37	-7		
Pursuit 81335-77	-5		
Warfarin	81-81-2		
Triasulfuron 82097-50	-5		
1,6-Hexamethylene diisocyanate	822-06-0		
Isoxaben 82558-50	-7		
Biphenrin	82657-04-3		
Pentachloronitrobenzene 82-68-	8		
Londax 83055-99	-6		
Ametryn 834-12	-8		
Rotenone	83-79-4		
Diethyl phthalate	84-66-2		
Ethylphthalyl ethylglycolate (EPEG)	84-72-0		
Diquat 85-00-	7		
Phthalic anhydride	85-44-9		
Nustar 85509-19	-9		
Fluorene 86-73-	7		
Hexabromobenzene 87-82-	1		
Terbutryn 886-50	-0		
Systhane 88671-89	-0		
Dinoseb 88-85-	7		
ortho-Anisidine 90-04-	0		
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		
Chlorimuron-ethyl 90982-32	-4		
beta-Chloronaphthalene	91-58-7		
N-Nitroso-di-n-butylamine 924-16	-3		
1,1-Biphenyl	92-52-4		
N-Nitrosopyrrolidine 930-55	-2		
p-Chlorophenyl methyl sulfoxide	934-73-6		
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		
2,4,5-Trichlorophenoxyacetic acid	93-76-5		
Fonofos 944-22	-9		
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5		
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		

TABLE A-2a. Identification of IRIS Chemicals of Interest on the ATSDR CERCLA Priority List of Hazardous Substances and Their Respective ATSDR Scores (*Cont.*)

NAME	CASRN	ATSDR POINTS	2007 RANK
Methidathion 950-37	-8		
o-Chlorotoluene 95-49-	8		
3,4-Dimethylphenol 95-65-	8		
Diphenamid	957-51-7		
2,4-Diaminotoluene	95-80-7		
1,2,4,5-Tetrachlorobenzene 95-94-	3		
Tetrachlorovinphos 961-11	-5		
1,2,3-Trichloropropane 96-18-	4		
Methyl acrylate	96-33-3		
Ethylene thiourea	96-45-7		
Furfural 98-01-	1		
Benzotrichloride	98-07-7		
p-Chlorophenyl methyl sulfone	98-57-7		
Cumene 98-82-	8		
Acetophenone 98-86-	2		
Nitrobenzene	98-95-3		

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APPENDIX A-3

Ranking of the USEPA IRIS Chemicals of Interest Using Parameters Available in the DLA's HMIRS

TABLE A-3a.	HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font)
TABLE A-3b.	Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font)
TABLE A-3c.	Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font)
TABLE A-3d.	HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names (Bold Font)
TABLE A-3e.	Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font)
TABLE A-3f.	HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font)
TABLE A-3g.	Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font)
TABLE A-3h.	HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Document Group Numbers (Bold Font)
TABLE A-3i.	Unique HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Document Group Numbers (Bold Font)
TABLE A-3j.	HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font)
TABLE A-3k.	HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font)

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TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Ethylbenzene 100-41	-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
Nickel 7440-02	-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
Methanol 67-56-	1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Manganese 7439-96	-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Copper 7440-50	-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
n-Butanol 71-36-	3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Dichloromethane 75-09-	2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
1,1,1-Trichloroethane 71-55-	6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31	2791	2673	2791	2791	2774	17
Molybdenum 7439-98	-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Cyclohexanone 108-94	-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Silver 7440-22	-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
Hydroquinone 123-31	-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
Antimony 7440-36	-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
Cadmium 7440-43	-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
n-Heptane 142-82	-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	1588	974	1588	1584	942	646
Cumene 98-82-	8	1481	778	17	1129	49	1632	1041	1632	1631	386	1246
Styrene 100-42	-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Naphthalene 91-20-	3	1419	718	27	879	77	1635	928	1635	1626	860	775
Ammonia 7664-41	-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
d-Limonene 5989-27	-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808	503
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Dichlorodifluoromethane 75-71-	8	936	655	38	391	89	953	758	953	953	854	99
Methylene Diphenyl Diisocyanate (monomeric MDI) 101-68	-8	874	710	39	258	47	1062	941	1062	1054	493	569
Tetrachloroethylene 127-18	-4	853	646	33	251	45	929	796	929	929	624	305
Antimony trioxide	1309-64-4	844	461	34	511	49	906	708	906	904	433	473
Sodium azide	26628-22-8	776	667	16	83	44	1100	1043	1100	1096	328	772
Vinyl acetate	108-05-4	740	688	21	114	26	953	897	953	952	480	473
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5	742	342	742	731	533	209
Chlorodifluoromethane 75-45-	6	714	514	34	292	60	774	587	774	771	488	286
2-Ethoxyethanol 110-80	-5	655	475	21	221	47	688	547	688	685	534	154
1,1,1,2-Tetrafluoroethane 811-97	-2	598	353	24	347	52	775	575	775	775	132	643
1,4-Dioxane 123-91	-1	571	469	28	202	63	623	520	623	623	408	215
Vanadium pentoxide	1314-62-1	569	560	26	52	9	587	565	587	587	340	247
Trichlorofluoromethane 75-69-	4	521	427	31	136	48	535	485	535	534	459	76
2-Methoxyethanol 109-86	-4	511	273	22	321	43	559	357	559	558	332	227
Epichlorohydrin 106-89	-8	507	445	16	148	26	559	496	559	558	299	260
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600	506	600	596	253	347
Trichloroethylene 79-01-	6	486	369	30	178	45	568	476	568	568	294	274
Asbestos 1332-21	-4	470	421	28	212	47	475	365	475	474	417	58
Triethylamine 121-44	-8	436	404	13	299	11	459	243	459	459	190	269
Bisphenol A	80-05-7	405	313	14	191	26	482	405	482	481	166	316
1,2-Dichloroethane 107-06	-2	396	165	16	96	11	440	185	440	219	318	122
Ammonium acetate	631-61-8	360	206	9	125	12	368	334	368	367	204	164
Ethylene diamine	107-15-3	342	235	17	166	36	377	320	377	375	170	207

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Beryllium and compounds	7440-41-7	340	296	31	74	24	379	340	379 378 220	159		
N,N-Dimethylformamide 68-12-	2	283	228	19	120	21	363	297	363 363 196	167		
Carbon tetrachloride	56-23-5	270	240	14	73	18	292	253	292 291 203			89
1,2-Epoxybutane 106-88	-7	268	203	18	124	26	300	256	300 300 171	129		
Tricresol 1319-77	-3	268	175	22	124	19	272	217	272 272 207			65
Selenium and compounds	7782-49-2	253	234	31	41	23	296	267	296 296 170	126		
Formic acid	64-18-6	250	188	14	86	20	271	231	271 271 171	100		
Acrylonitrile 107-13	-1	239	230	18	37	12	265	246	265 265 131	134		
Phenylmercuric acetate	62-38-4	239	230	13	42	6	240	200	240 240 222			18
1,2-Dichlorobenzene 95-50-	1	225	176	17	68	19	249	211	249 249 162			87
1,4-Dichlorobenzene 106-46	-7	223	183	16	53	11	246	219	246 245 171			75
Chlorine 7782-50	-5	220	162	18	115	22	241	140	241 241 132	109		
Propylene oxide	75-56-9	205	191	12	54	23	246	224	246 246 137	109		
Isophorone 78-59-	1	200	167	13	13	7	237	212	237 237 170			67
Acrylic acid	79-10-7	199	134	17	99 14		234	191	234	234 99		135
Chlorobenzene 108-90	-7	193	155	17	60	19	213	188	213 213 134			79
Acetaldehyde 75-07-	0	183	169	15	51 26		323	280	323	323 49		274
Chlorothalonil 1897-45	-6	174	162	8	3	1	205	174	205 205 114			91
Chlorpyrifos 2921-88	-2	153	102	7	3	3	166	144	166 166 110			56
Potassium cyanide	151-50-8	152	105	9	62	14	161	128	161 161 115			46
Cyclohexylamine 108-91	-8	145	111	7	40	5	154	129	154 154 114			40
Chromium (VI)	18540-29-9	139	136	13	37	11	147	133	147 147 116			31
Aniline 62-	53-3	131	113	14	35 18		140	121	140	140 95 45		
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118	116	118 118 107			11
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112	54	6			114	56	114	57 94 20		
Pentachlorophenol 87-86-	5	108	96	13	11	4	110	99	110	110 86 24		
Selenious acid	7783-00-8	101	80	6	27	8	110	95	110 110		61	49
Diphenylamine 122-39	-4	100	89	14	68 26		123	110	123	123 54 69		
trans-1,2-Dichloroethylene 156-60	-5	100	77	9	54	5	136	108	136 136		29	107
Baygon 114-26	-1	99	83	7	12	5	106	98	106 106		84	22
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6 2		109	107	109	109	91	18

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Tributyltin oxide	56-35-9	98	91	10	6	6 106		98 106 106			64	42
Tetraethyl lead	78-00-2	97	42	3 56		4 99		57 99 99 89 10				
1,1-Biphenyl 92-52-	4	97	82	15 48 14 98				75 98 98 55 43				
2-Methylphenol 95-48-	7	95	88	12 22		8	103	95	103	103 62 41		
Benzaldehyde 100-52	-7	93	78	8 39		4	101	71	101 94 60 41			
Thiram 137-26	-8	90	84	12 53		6 93		71 93 93 57 36				
Carbaryl 63-25-	2	89	69	6 19		2 93		84 93 93 73 20				
Sodium cyanide	143-33-9	88	42	5 53		5 90		57 90 90 63 27				
Hexachlorobenzene 118-74	-1	85	79	9	5	1 88		83 88 88 66 22				
Resmethrin 10453-86	-8	84	58	5 28		4 86		84 86 86 68 18				
m-Phenylenediamine 108-45	-2	83	68	8 40		7 89		69 89 89 49 40				
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83	80	12 32 15			102	86	102	102 57 45		
Permethrin 52645-53	-1	83	51	8	39	7 103		87 103 103			32	71
Acrylamide 79-06-	1	83	80	8	6	4 303		297 303 303			39 264	
Methyl acrylate	96-33-3	83	56	4	78	1 102		67 102 102			1 101	
gamma-Hexachlorocyclohexane 58-89-	9	82	73	12 11		4 82		77 82 82 73				9
Pyridine 110-86	-1	76	58	6 20		7 83		68 83 83 58 25				
Malathion 121-75	-5	74	33	5 40		2 80		70 80 80 59 21				
Coke oven emissions	8007-45-2	74	61	9 16		7 77		68 77 77 70				7
o-Chlorotoluene 95-49-	8	72	68	11 13		6 94		90 94 94 56 38				
Arochlor 1254	11097-69-1	66	55	9	3	2 70		67 70 70 35 35				
Hydrazine/hydrazine sulfate	302-01-2	66	40	5 40 10 69				51 69 69 53 16				
N,N-Dimethylaniline 121-69	-7	65	44	5 30		4 68		55 68 68 36 32				
Diuron 330-54	-1	65	39	9 34		8 72		54 72 71 39 33				
Folpet 133-07	-3	64	60	6	8	6 68		65 68 68 31 37				
Amdro 67485-29	-4	64	32	2 35		4 77		51 77 75 32 45				
Methoxychlor 72-43-	5	62	62	7	1	1 63		63 63 63 58				5
Furfural 98-01-	1	61	60	10			61	61 61 61 45 16				
Endrin 72-20-	8	58	56	7			58	57 58 57 46 12				
Uranium, natural	7440-61-1	58	47	7 37 10 59				51 59 59 49 10				
Ethylene thiourea	96-45-7	57	54	8 20		8 65		58 65 65 49 16				

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Pentafluoroethane 354-33	-6	56	40	3 31		2 86		47 86 86			8 78	
Trichloroacetic acid	76-03-9	55	48	6 15		6 62		57 62 62 30 32				
p-Nitrophenol 100-02	-7	54	48	8	6	2 55		49 55 55 42 13				
Ethyl chloride	75-00-3	54	49	9	6	4 64		60 64 64 43 21				
Heptachlor	76-44-8	54	53	7			54	54 54 54 45				9
Bromomethane 74-83-	9	53	46	7	3	2 63		61 63 63 45 18				
Bromoform 75-25-	2	53	50	6	3	2 68		67 68 68 35 33				
1,3-Dichlorobenzene 541-73	-1	52	49	6	3	3 62		61 62 62 38 24				
Decabromodiphenyl ether (DBDPE)	1163-19-5	51	32	11 27		5 56		46 56 56 21 35				
Diethyl phthalate	84-66-2	51	45	16 14 10 56				53 56 56 34 22				
Dicamba 1918-00	-9	50	45	5	1	1 58		57 58 58 44 14				
1,2,4-Trichlorobenzene 120-82	-1	48	46	7	3	3 56		56 56 56 35 21				
Triethylene glycol monobutyl ether	143-22-6	48	30	4 22		1 60		45 60 60 17 43				
Dichlorvos 62-73-	7	48	31	4 15		3 49		42 49 49 37 12				
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55	55 55 55 44 11				
Bromochloromethane 74-97-	5	47	40	10	5	5 55		50 55 55 33 22				
di(2-ethylhexyl)Adipate 103-23	-1	46	42	16 18		5 50		41 50 50 30 20				
Cyanide, free	57-12-5	46	42	7	9	6 48		47 48 48 37 11				
Heptachlor epoxide	1024-57-3	45	44	6			45	45 45 45 38				7
Dieldrin 60-57-	1	45	44	7			45	45 45 45 36				9
Aldrin 309-00	-2	44	43	7			44	43 44 44 34 10				
Simazine 122-34	-9	43	34	4			46	38 46 46 32 14				
Mercuric chloride	7487-94-7	43	30	5 22		7 50		44 50 50 31 19				
2-Nitropropane 79-46-	9	43	38	7 13		7 43		40 43 43 35				8
Bromodichloromethane 75-27-	4	41	38	5	2	1 50		50 50 50 31 19				
3-Methylphenol 108-39	-4	40	39	8	9	6 43		40 43 43 31 12				
1,2-Dichloropropane 78-87-	5	40	37	5			51	50 51 51 32 19				
2,4-Dinitrotoluene 121-14	-2	39	38	6	2	1 43		41 43 43 27 16				
1,1,2-Trichloroethane 79-00-	5	39	36	6	2	2 51		49 51 51 31 20				
Dibromochloromethane 124-48	-1	38	35	5	3	2 48		48 48 48 30 18				
Benzo [a] pyrene	50-32-8	38	36	7	7	1 41		41 41 41 22 19				

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Hexachloroethane 67-72-	1	38	36	7	1	1 39		36 39 39 31				8
Arochlor 1016	12674-11-2	37	33	5	1	1 41		41 41 41 14 27				
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37	36	7			37	37 37 37 29				8
Carbon disulfide	75-15-0	37	29	6	6	1 40		32 40 40 24 16				
4-Methylphenol 106-44	-5	36	34	9	7	5 39		36 39 39 26 13				
2,4,6-Trinitrotoluene 118-96	-7	36	29	5			51	46 51 51 35 16				
Anthracene 120-12	-7	36	32	9	5	2 38		37 38 38 22 16				
Nitrobenzene 98-95-	3	36	30	5	6	1 37		36 37 37 28				9
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	35	34	7	1	1 37		37 37 37 25 12				
Acenaphthene 83-32-	9	35	34	7			37	37 37 37 28				9
Atrazine 1912-24	-9	34	32	5			37	37 37 37 27 10				
Phenanthrene 85-01-	8	34	32	9	5	1 36		32 36 36 21 15				
2,4,6-Trichlorophenol 88-06-	2	34	33	7	1	1 35		33 35 35 21 14				
2-Chlorophenol 95-57-	8	34	33	6			36	34 36 36 27				9
Dimethylamine 124-40	-3	33	30	7	7	3 38		34 38 38 24 14				
1,1-Dichloroethane 75-34-	3	33	30	5			45	44 45 45 23 22				
Chrysene 218-01	-9	32	31	7	7	1 34		34 34 34 21 13				
Baythroid 68359-37	-5	32	12	1 20		2 50		38 50 50 11 39				
1,1,2,2-Tetrachloroethane 79-34-	5	32	29	4	1	1 43		42 43 43 26 17				
Glyphosate 1071-83	-6	31	23	4 14		2 33		27 33 32 25				8
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31	30	6			31	31 31 31 25				6
Benzo(a)anthracene 56-55-	3	31	27	9 12		3 33		32 33 33 14 19				
Creosote 8001-58	-9	31	22	9 12		5 32		22 32 32 25				7
Diquat 85-00-	7	31	20	4 15		2 32		22 32 32 22 10				
Fluoranthene 206-44	-0	30	30	6	8	2 32		31 32 32 26				6
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30	29	6			30	30 30 30 24				6
2,4-Dinitrophenol 51-28-	5	30	28	9	5	4 34		30 34 34 18 16				
beta-Hexachlorocyclohexane 319-85	-7	29	28	6			29	29 29 29 23				6
Silver cyanide	506-64-9	29	12	2 12		3 29		16 29 29 24				5
Hydrogen cyanide	74-90-8	29	29 12		2	2 32		31 32 32 20 12				
Pyrene 129-00	-0	28	28	7			30	30 30 30 22				8

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NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Hexazinone 51235-04	-2	28	16	3	8	1 29		17 29 29 20				9
Nitric Oxide	10102-43-9	27	26	9	2	2 43		34 43 43 10 33				
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	27	25	6	9	4 46		42 46 46 18 28				
Pendimethalin 40487-42	-1	27	27	4			32	32 32 32 15 17				
Selenium sulfide	7446-34-6	27	27	1			27	27 27 27 27				
N-Nitrosodiphenylamine 86-30-	6	27	26	5 11		1 29		29 29 29 23				6
Prometon 1610-18	-0	26	20	5	5	1 28		25 28 28 19				9
Trifluralin 1582-09	-8	25	23	5			27	26 27 27 19				8
Disulfoton 298-04	-4	25	25	4			25	25 25 25 21				4
Acephate 30560-19	-1	25	23	4	5	2 30		27 30 30 20 10				
2,4-Dimethylphenol 105-67	-9	24	23	7	4	3 26		23 26 26 16 10				
Hexachlorophene 70-30-	4	24	19	6 12		5 24		13 24 24 23				1
Toxaphene 8001-35	-2	24	22	6	2	1 24		24 24 24 20				4
Caprolactam 105-60	-2	23	23 8 5 3				23	22 23		23 7		16
Benzo(b)fluoranthene 205-99	-2	23	23	6	7	1 25		25 25 25 13 12				
1,2-Dibromo-3-chloropropane 96-12-	8	23	22	5	1	1 30		30 30 30 20 10				
Thallium nitrate	10102-45-1	22	22 5 1 1				27	25 27		27 9		18
Benzo(k)fluoranthene 207-08	-9	22	22	7	7	1 24		24 24 24 11 13				
N-Nitroso-di-N-propylamine 621-64	-7	22	21	4			23	23 23 23 16				7
beta-Chloronaphthalene 91-58-	7	22	19	6	5	2 24		23 24 24 14 10				
Benzidine 92-87-	5	22	18	6			23	22 23 23 18				5
Maleic anhydride	108-31-6	21	21	6	4	3 21		18 21 21 18				3
Indeno[1,2,3-cd]pyrene 193-39	-5	21	21	6	7	1 23		23 23 23 11 12				
Cypermethrin 52315-07	-8	21	12	1 13		2 26		16 26 26			9 17	
Dibenzo(a,h)anthracene 53-70-	3	21	21	6	7	1 23		23 23 23 11 12				
Methomyl 16752-77	-5	20	8	2 13		1 22		16 22 22 10 12				
Dacthal 1861-32	-1	20	15	5			20	19 20 20 14				6
Copper cyanide	544-92-3	20	12	2	5	1 20		12 20 20 17				3
Alachlor 15972-60	-8	19	19	5			19	19 19 19 15				4
Aluminum phosphide	20859-73-8	19	5	3 16		1 19		17 19 19 12				7
2,6-Dinitrotoluene 606-20	-2	19	18	4			20	20 20 20 13				7

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NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Bis(chloroethyl)ether 111-44	-4	18	17	4			20	19 20 20 12				8
Zinc phosphide	1314-84-7	18	11	3	4	1 19		10 19 19 11				8
cis-1,2-Dichloroethylene 156-59	-2	18	17	4	1	1 27		27 27 27 14 13				
Acenaphthylene 208-96	-8	18	18	6			20	20 20 20 15				5
2,4,5-Trichlorophenol 95-95-	4	18	17	5			21	20 21 21 14				7
Propargyl alcohol	107-19-7	17	16	5	6	3 17		17 17 17 14				3
Naled 300-76	-5	17	11	2	7	2 18		14 18 16 13				5
Fluorene 86-73-	7	17	17	6			19	19 19 19 13				6
Azobenzene 103-33	-3	16	15	4			17	17 17 17 10				7
Tebuthiuron 34014-18	-1	16	11 5 8 2				17	12 17	17 5			12
Phosphine 7803-51	-2	16	13 4 8 2				16	8 16	16 9 7			
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17	17 17 17 16				1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16	16	4			17	17 17 17 16				1
Dibenzofuran 132-64	-9	15	14	8			17	17 17 17			6 11	
Benefin 1861-40	-1	15	13	4			16	16 16 16 15				1
Metribuzin 21087-64	-9	15	15	4			16	16 16 16 11				5
4-Aminopyridine 504-24	-5	15	15	2			16	16 16 16 14				2
N-Nitrosodimethylamine 62-75-	9	15	14	4			16	16 16 16 11				5
Bis(2-chloroisopropyl) ether	108-60-1	14	13	4			14	14 14 14 11				3
1-Chlorobutane 109-69	-3	14	14	2			14	14 14 14			4 10	
Benzo[g,h,i]perylene 191-24	-2	14	14	5			19	19 19 19 11				8
Pydrin 51630-58	-1	14	13	4			14	14 14 14 14				
Dalapon (sodium salt)	75-99-0	14	14	4			14	14 14 14 13				1
Bis(2-chloroethoxy)methane 111-91	-1	13	12	4			14	14 14 14 10				4
3,3-Dimethylbenzidine 119-93	-7	13	12	3	1	1 14		13 14 14 11				3
Oryzalin 19044-88	-3	13	9	3	5	1 13		13 13 13 10				3
Propachlor 1918-16	-7	13	11 5				14	13 14	14 7 7			
Bayleton 43121-43	-3	13	12	4			15	15 15 15 10				5
Potassium silver cyanide	506-61-6	13	12 3 3 2				14	13 14	14 9 5			
1,1,1,2-Tetrachloroethane 630-20	-6	13	12	4	2	2 19		19 19 19 10				9
Dinoseb 88-85-	7	13	13	4			13	13 13 13 13				

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1,2,3-Trichloropropane 96-18-	4	13	12	4			20	20 20 20 11				9
Pentabromodiphenyl ether	32534-81-9	12	9 4 5 3				14	12	14	14 6 8		
Chlorobenzilate 510-15	-6	12	10 5				12	11	12	12 6 6		
Ethyl carbamate	51-79-6	12	12 6 2 2				12	12	12	12 7 5		
2,6-Dimethylphenol 576-26	-1	12	12 3 2 1				12	11	12	12 9 3		
Pentachloronitrobenzene 82-68-	8	12	12	5			12	12 12 12 12				
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13	13 13 13 10				3
Oxadiazon 19666-30	-9	11	11 3				14	13	14	14 6 8		
Dimethoate 60-51-	5	11	10	4			11	11 11 11 10				1
Arsine 7784-42	-1	11	10 3 4 1				11	4	11	11 7 4		
Acetophenone 98-86-	2	11	11 5				14	14	14	14 7 7		
Picloram 1918-02	-1	10	10	3	2	1 10		10 10 10 10				
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10	10	3 10		4 10		5 10 10 10				
Quinone 106-51	-4	10	10 4 3 3				11	11	11	11 5 6		
2-Chloroacetophenone 532-27	-4	10	10 6 1 1				10	10	10	10 9 1		
Captan 133-06	-2	9	9 4 3 3				10	10	10	10 8 2		
Iprodione 36734-19	-7	9	9 3				14	13	14	14 7 7		
Metolachlor 51218-45	-2	9	9 4				9	9 9 9 5 4				
Zinc cyanide	557-21-1	9	8 2 1 1 9					8 9 9 6 3				
Metalaxyl 57837-19	-1	9	7 2				10	10	10	10 6 4		
Cacodylic acid	75-60-5	9	9 5				11	11	11	11 6 5		
Aluminum sulfamate	7773-06-0	9	8 3 1 1 9					8 9 9 9				
Warfarin 81-81-	2	9	6 2				9	9 9 9 9				
Endothall 145-73	-3	8	8 2				8	8 8 8 6 2				
Paraquat 1910-42	-5	8	6 3				8	8 8 8 6 2				
Pronamide 23950-58	-5	8	8 4				8	8 8 8 7 1				
Parathion 56-38-	2	8	7 4				8	8 8 8 7 1				
2,4-Diaminotoluene 95-80-	7	8	8 2				8	8 8 8 6 2				
Tetrachlorovinphos 961-11	-5	8	8 2				8	8 8 8 5 3				
Chlorpropham 101-21	-3	7	7 3				8	8 8 8 4 4				
p-Chloroaniline 106-47	-8	7	6 3				8	8 8 8 5 3				

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Sodium diethyldithiocarbamate	148-18-5	7	7	3 2 2 7				7 7 7 4 3				
Vernam 1929-77	-7	7	7	4			7	7 7 7 5 2				
Methyl parathion	298-00-0	7	6	3			7	7 7 7 5 2				
Strychnine 57-24-	9	7	6	1			7	7 7 7 7				
Fluridone 59756-60	-4	7	5	3 4 1 8				7 8 8 3 5				
Paclobutrazol 76738-62	-0	7	7	1			7	6 7 7 6 1				
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7	7	3			7	7 7 7 7				
Benzyl chloride	100-44-7	6	6	5			7	6 7 7 4 3				
Maneb 12427-38	-2	6	6	1			6	6 6 6 6				
Chloramben 133-90	-4	6	6	3			6	6 6 6 5 1				
Merphos 150-50	-5	6	6	2			6	6 6 6 3 3				
Benomyl 17804-35	-2	6	6	2			6	4 6 6 5 1				
Fenamiphos 22224-92	-6	6	6	3			6	6 6 6 4 2				
Propylene glycol monoethyl ether	52125-53-8	6	6	2 2 1 6				6 6 6 4 2				
Barium cyanide	542-62-1	6	1	1 6 1 6				3 6 6 6				
Ethion 563-12	-2	6	5	3			6	6 6 6 4 2				
Ametryn 834-12	-8	6	6	5			6	6 6 6 2 4				
1,3,5-Trinitrobenzene 99-35-	4	6	5	3 3 1 7				7 7 7 5 2				
Thallic oxide	1314-32-5	5	5	4			6	6 6 6 3 3				
Ethyleneimine 151-56	-4	5	5	3			5	5 5 5 3 2				
Butylate 2008-41	-5	5	5	3			5	5 5 5 3 2				
Molinate 2212-67	-1	5	5	3			5	5 5 5 3 2				
Oxamyl 23135-22	-0	5	5	3			5	5 5 5 5				
Cyanogen 460-19	-5	5	5	3			6	5 6 6 1 5				
Carboxin 5234-68	-4	5	5	2			5	5 5 5 2 3				
Nitroguanidine 556-88	-7	5	5	3 3 3 5				5 5 5 3 2				
2,3,4,6-Tetrachlorophenol 58-90-	2	5	5	3			6	6 6 6 3 3				
Phosmet 732-11	-6	5	4	3			5	4 5 5 4 1				
Rotenone 83-79-	4	5	4	2 2 1 6				6 6 6 5 1				
Allyl chloride	107-05-1	4	4	2			4	4 4 4 3 1				
N-Nitrosodiethanolamine 1116-54	-7	4	2	2			4	2 4 2 2 2				

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Adiponitrile 111-69	-3	4	4 3				4	4 4 4 3 1				
Carbofuran 1563-66	-2	4	4 3				4	4 4 4 4				
Cyanazine 21725-46	-2	4	4 3				4	4 4 4				
Tetraethyldithiopyrophosphate 3689-24	-5	4	4 3				4	4 4 4 4				
Carbonyl sulfide	463-58-1	4	4 2				4	4 4 4 1 3				
Thallium acetate	563-68-8	4	4 3				4	4 4 4 3 1				
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4	4 2				4	4 4 4 1 3				
Pentachlorobenzene 608-93	-5	4	4 4 1 1 4					4 4 4 3 1				
Avermectin B1	65195-55-3	4	4 2				4	4 4 4 4				
Prometryn 7287-19	-6	4	4 2				4	4 4 4 2 2				
Ally 74223-64	-6	4	3 1 2 1 6					6 6 6 3 3				
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4	4 4				4	4 4 4 2 2				
Dimethyl sulfate	77-78-1	4	4 3 2 1 4					4 4 4 3 1				
Methyl chlorocarbonate	79-22-1	4	2 2 3 1 4					3 4 4 3 1				
Biphenrin 82657-04	-3	4	3 2 2 1				12	10	12	12		
1,2,4,5-Tetrachlorobenzene 95-94-	3	4	4 4 1 1 4					4 4 4 3 1				
Dodine 2439-10	-3	3	2 2				3	2 3 3 3				
Endosulfan 115-29	-7	3	3 2				3	3 3 3 3				
Aldicarb 116-06	-3	3	3 3				3	3 3 3 3				
Zineb 12122-67	-7	3	3 2 2 2 3					3 3 3 1 2				
Propazine 139-40	-2	3	3 2				3	3 3 3 1 2				
Aldicarb sulfone	1646-88-4	3	3 3				3	3 3 3 3				
Bromoxynil octanoate	1689-99-2	3	3 1				3	3 3 3 3				
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3	3 2				3	3 3 3 3				
Norflurazon 27314-13	-2	3	3 2				3	3 3 3 2 1				
Amitraz 33089-61	-1	3	3 2				3	3 3 3 1 2				
Oxyfluorfen 42874-03	-3	3	3 3				4	4 4 4 3 1				
Terbacil 5902-51	-2	3	3 3				3	3 3 3 2 1				
Nonabromodiphenyl ether	63936-56-1	3	3 2				3	3 3 3 2 1				
Tralomethrin 66841-25	-6	3	3 1 1 1 6					6 6 6				
Terbutryn 886-50	-0	3	3 2				3	3 3 3 1 2				

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Fonofos 944-22	-9	3	3 3				3	3 3 3 2 1				
3,4-Dimethylphenol 95-65-	8	3	2 1 3 1 3					1 3 3				
Diphenamid 957-51	-7	3	3 3				3	3 3 3 1 2				
Benzotrichloride 98-07-	7	3	3 2				3	3 3 3 2 1				
1,4-Dibromobenzene 106-37	-6	2	2 1				2	2 2 2 1 1				
Dimethyl terephthalate (DMT)	120-61-6	2	2 1				2	2 2 2 2				
Methacrylonitrile 126-98	-7	2	2 2				2	2 2 2 1 1				
Aramite 140-57	-8	2	2 2				2	2 2 2 2				
Bidrin 141-66	-2	2	2 2				2	2 2 2 1 1				
Napropamide 15299-99	-7	2	2 2				2	2 2 2 1 1				
Nitrapyrin 1929-82	-4	2	2 2 1 1 2					2 2 2 2				
p,p'-Dibromodiphenyl ether	2050-47-7	2	2 2				2	2 2 2 1 1				
Octabromodiphenyl ether	32536-52-0	2	2 1				2	2 2 2 2				
Vinclozolin 50471-44	-8	2	2 1				4	4 4 4 2 2				
Calcium cyanide	592-01-8	2	2 2				2	2 2 2 2				
1,2,4-Tribromobenzene 615-54	-3	2	2 1				2	2 2 2 2				
Acifluorfen, sodium	62476-59-9	2	2 2				2	2 2 2 2				
Fluvalinate 69409-94	-5	2	2 1				2	2 2 2 2				
Sethoxydim 74051-80	-2	2	1 1				3	3 3 3 1 2				
Isoxaben 82558-50	-7	2	2 1				4	3 4 4 2 2				
N-Nitroso-di-n-butylamine 924-16	-3	2	2 2				2	2 2 2 2				
N-Nitroso-N-methylethylamine 10595-95	-6	1	1 1				1	1 1 1 1				
Allyl alcohol	107-18-6	1	1 1				1	1 1 1 1				
Furan 110-00	-9	1	1 1				1	1 1 1 1				
1,2-Diphenylhydrazine 122-66	-7	1	1 1				1	1 1 1 1				
Maleic hydrazide	123-33-1	1	1 1				1	1 1 1				
Chlordane (technical)	12789-03-6	1	1 1				1	1 1 1 1				
Nitrate 14797-55	-8	1	1 1				2	2 2 2				
Fluometuron 2164-17	-2	1	1 1				1	1 1 1 1				
Triallate 2303-17	-5	1	1 1				1	1 1 1 1				
Thiobencarb 28249-77	-6	1	1 1				1	1 1 1 1				

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Linuron 330-55	-2	1	1	1			1	1	1			
Isopropalin 33820-53	-0	1	1	1			1	1	1			
t-Butyl chloride	507-20-0	1	1	1			1	1	1			
N-Nitrosodiethylamine 55-18-	5	1	1	1			1	1	1			
Sodium fluoroacetate	62-74-8	1	1	1			2	2	2	1		
Diethyl sulfate	64-67-5	1	1	1			1	1	1			
Chlorsulfuron 64902-72	-3	1	1	1	1	2		2	2	1		
Thallium carbonate	6533-73-9	1	1	1			1	1	1	1		
Flutolanil 66332-96	-5	1	1	1			2	2	2			
Thallium (I) sulfate	7446-18-6	1	1	1			1	1	1	1		
Bromotrichloromethane 75-62-	7	1	1	1			1	1	1			
Thallium chloride	7791-12-0	1	1	1			1	1	1	1		
Merphos oxide	78-48-8	1	1	1			2	2	2	2	1	
N-Nitrosopyrrolidine 930-55	-2	1	1	1			1	1	1	1		
Propiconazole 60207-90	-1	0					4	3	4			
Imazaquin 81335-37	-7	0					2	2	2	2		
Systhane 88671-89	-0	0					1	1	1	1		
Captafol 2425-06	-1											
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Express 101200-4	8-0											
Methamidophos 10265-92	-6											
Monchloramine 10599-90	-3											
Chloromethyl methyl ether	107-30-2											
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
2,4-Dichlorophenol 120-83	-2											
Propham 122-42	-9											
p-Chlorophenyl methyl sulfide	123-09-1											
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Nickel carbonyl	13463-39-3											
Quinalphos 13593-03	-8											

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Phenmedipham 13684-63	-4											
Diisopropyl methylphosphonate	1445-75-6											
Nitrite 14797-65	-0											
Alar 1596-84	-5											
Ethephon 16672-87	-0											
Bromoxynil 1689-84	-5											
Isopropyl methyl phosphonic acid	1832-54-8											
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Phosolone 2310-17	-0											
Propargite 2312-35	-8											
Thiophanate-methyl 23564-05	-8											
Mirex 2385-85	-5											
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene 25329-35	-5											
Pirimiphos-methyl 29232-93	-7											
Asulam 3337-71	-1											
Diazomethane 334-88	-3											
Acetochlor 34256-82	-1											
Diflubenzuron 35367-38	-5											
Imazalil 35554-44	-0											
Hexabromodiphenyl ether	36483-60-0											
Fosetyl-al 39148-24	-8											
Danitol 39515-41	-8											
Tetrabromodiphenyl ether	40088-47-9											
Difenzoquat 43222-48	-6											
Tribromodiphenyl ether	49690-94-0											
Formaldehyde 50-00-	0											
Chlorine cyanide	506-77-4											
o-Dinitrobenzene 528-29	-0											
Bis(chloromethyl) ether	542-88-1											
Carbosulfan 55285-14	-8											

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Dimethipin 55290-64	-7											
beta-Propiolactone 57-57-	8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											
Tridiphan 58138-08	-2											
Vinyl bromide	593-60-2											
Dibromodichloromethane 594-18	-3											
1,1,2-Trichloropropane 598-77	-6											
Furmecyclo 60568-05	-0											
Methyl isocyanate	624-83-9											
Selenourea 630-10	-4											
Cyromazine 66215-27	-8											
Prochloraz 67747-09	-5											
Cyhalothrin/karate 68085-85	-8											
Haloxyp-methyl 69806-40	-2											
Propanil 709-98	-8											
Fomasafen 72178-02	-0											
Apollo 74115-24	-5											
Radium 226,228	7440-14-4											
Propyleneimine 75-55-	8											
Glycidaldehyde 765-34	-4											
Assure 76578-14	-8											
Glufosinate-ammonium 77182-82	-2											
Trichlorocyclopentadiene 77323-84	-3											
Lactofen 77501-63	-4											
Fluorine, soluble fluoride	7782-41-4											
Savey 78587-05	-0											
Harmony 79277-27	-3											
Demeton 8065-48	-3											
Pursuit 81335-77	-5											
Triasulfuron 82097-50	-5											
Londax 83055-99	-6											

TABLE A-3a. HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Stock Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											
Phthalic anhydride	85-44-9											
Nustar 85509-19	-9											
Hexachlorobutadiene 87-68-	3											
Hexabromobenzene 87-82-	1											
ortho-Anisidine 90-04-	0											
Chlorimuron-ethyl 90982-32	-4											
p-Chlorophenyl methyl sulfoxide	934-73-6											
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
Methidathion 950-37	-8											
p-Chlorophenyl methyl sulfone	98-57-7											

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Nickel 7440-02	-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
Manganese 7439-96	-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Copper 7440-50	-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
Ethylbenzene 100-41	-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
Methanol 67-56-	1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
n-Butanol 71-36-	3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Dichloromethane 75-09-	2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
1,1,1-Trichloroethane 71-55-	6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Molybdenum 7439-98	-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31	2791	2673	2791	2791	2774	17
Cyclohexanone 108-94	-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
Silver 7440-22	-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Cadmium 7440-43	-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
Hydroquinone 123-31	-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
Antimony 7440-36	-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
Styrene 100-42	-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742
n-Heptane 142-82	-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	1588	974	1588	1584	942	646
Ammonia 7664-41	-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100

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d-Limonene 5989-27	-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
Cumene 98-82-	8	1481	778	17	1129	49	1632	1041	1632	1631	386 1246	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
Naphthalene 91-20-	3	1419	718	27	879	77	1635	928	1635	1626	860	775
Methylene Diphenyl Diisocyanate (monomeric MDI) 101-68	-8	874	710	39	258	47	1062	941	1062	1054	493	569
Vinyl acetate	108-05-4	740	688	21	114	26	953 897 953	952			480 473	
Sodium azide	26628-22-8	776	667	16	83	44	1100	1043	1100	1096	328	772
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808	503
Dichlorodifluoromethane 75-71-	8	936	655	38	391	89	953 758 953	953			854	99
Tetrachloroethylene 127-18	-4	853	646	33	251	45	929 796 929	929			624 305	
Vanadium pentoxide	1314-62-1	569	560	26	52	9	587 565 587	587			340 247	
Chlorodifluoromethane 75-45-	6	714	514	34	292	60	774 587 774	771			488 286	
2-Ethoxyethanol 110-80	-5	655	475	21	221	47	688 547 688	685			534 154	
1,4-Dioxane 123-91	-1	571	469	28	202	63	623 520 623	623			408 215	
Antimony trioxide	1309-64-4	844	461	34	511	49	906 708 906	904			433 473	
Epichlorohydrin 106-89	-8	507	445	16	148	26	559 496 559	558			299 260	
Trichlorofluoromethane 75-69-	4	521	427	31	136	48	535 485 535	534			459	76
Asbestos 1332-21	-4	470	421	28	212	47	475 365 475	474			417	58
Triethylamine 121-44	-8	436	404	13	299	11	459 243 459	459			190 269	
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600 506 600	596			253 347	
Trichloroethylene 79-01-	6	486	369	30	178	45	568 476 568	568			294 274	
1,1,1,2-Tetrafluoroethane 811-97	-2	598	353	24	347	52	775 575 775	775			132 643	
Bisphenol A	80-05-7	405	313	14	191	26	482 405 482	481			166 316	
Beryllium and compounds	7440-41-7	340	296	31	74	24	379 340 379	378			220 159	
2-Methoxyethanol 109-86	-4	511	273	22	321	43	559 357 559	558			332 227	
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5	742 342 742	731			533 209	
Carbon tetrachloride	56-23-5	270	240	14	73	18	292 253 292	291			203	89
Ethylene diamine	107-15-3	342	235	17	166	36	377 320 377	375			170 207	

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Selenium and compounds	7782-49-2	253	234	31	41	23	296 267 296 296				170	126
Acrylonitrile 107-13	-1	239	230	18	37	12	265 246 265 265				131	134
Phenylmercuric acetate	62-38-4	239	230	13	42	6	240 200 240 240				222	18
N,N-Dimethylformamide 68-12-	2	283	228	19	20	21	363 297 363 363				196	167
Ammonium acetate	631-61-8	360	206	9	25	12	368 334 368 367				204	164
1,2-Epoxybutane 106-88	-7	268	203	18	24	26	300 256 300 300				171	129
Propylene oxide	75-56-9	205	191	12	54	23	246 224 246 246				137	109
Formic acid	64-18-6	250	188	14	86	20	271 231 271 271				171	100
1,4-Dichlorobenzene 106-46	-7	223	183	16	53	11	246 219 246 245				171	75
1,2-Dichlorobenzene 95-50-	1	225	176	17	68	19	249 211 249 249				162	87
Tricresol 1319-77	-3	268	175	22	24	19	272 217 272 272				207	65
Acetaldehyde 75-07-	0	183	169	15	51	26	323 280 323 323				49	274
Isophorone 78-59-	1	200	167	13	13	7	237 212 237 237				170	67
1,2-Dichloroethane 107-06	-2	396	165	16	96	11	440 185 440 219				318	122
Chlorothalonil 1897-45	-6	174	162	8	3	1	205 174 205 205				114	91
Chlorine 7782-50	-5	220	162	18	115	22	241 140 241 241				132	109
Chlorobenzene 108-90	-7	193	155	17	60	19	213 188 213 213				134	79
Chromium (VI)	18540-29-9	139	136	13	37	11	147 133 147 147				116	31
Acrylic acid	79-10-7	199	134	17	99	14	234 191 234 234				99	135
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118 116 118 118				107	11
Aniline 62-53-3		131	113	14	35	18	140 121 140 140				95	45
Cyclohexylamine 108-91	-8	145	111	7	40	5	154 129 154 154				114	40
Potassium cyanide	151-50-8	152	105	9	62	14	161 128 161 161				115	46
Chlorpyrifos 2921-88	-2	153	102	7	3	3	166 144 166 166				110	56
Pentachlorophenol 87-86-	5	108	96	13	11	4	110	99	110 110		86	24
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2	109 107 109 109				91	18
Tributyltin oxide	56-35-9	98	91	10	6	6	106	98	106 106		64	42
Diphenylamine 122-39	-4	100	89	14	68	26	123 110 123 123				54	69
2-Methylphenol 95-48-	7	95	88	12	22	8	103	95	103 103		62	41
Thiram 137-26	-8	90	84	12	53	6	93 71 93 93				57	36
Baygon 114-26	-1	99	83	7	12	5	106	98	106 106		84	22

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,1-Biphenyl 92-52-	4	97	82	15 48 14 98 75 98 98							55 43	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83	80	12 32 15			102 86		102	102	57 45	
Selenious acid	7783-00-8	101	80	6	27	8 110		95 110 110			61	49
Acrylamide 79-06-	1	83	80	8	6	4 303 297 303 303					39 264	
Hexachlorobenzene 118-74	-1	85	79	9	5	1 88 83 88 88					66 22	
Benzaldehyde 100-52	-7	93	78	8 39		4 101 71			101 94		60 41	
trans-1,2-Dichloroethylene 156-60	-5	100	77	9	54	5 136 108 136 136					29 107	
gamma-Hexachlorocyclohexane 58-89-	9	82	73	12 11		4 82 77 82 82					73	9
Carbaryl 63-25-	2	89	69	6 19		2 93 84 93 93					73 20	
m-Phenylenediamine 108-45	-2	83	68	8 40		7 89 69 89 89					49 40	
o-Chlorotoluene 95-49-	8	72	68	11 13		6 94 90 94 94					56 38	
Methoxychlor 72-43-	5	62	62	7	1	1 63 63 63 63					58	5
Coke oven emissions	8007-45-2	74	61	9 16		7 77 68 77 77					70	7
Folpet 133-07	-3	64	60	6	8	6 68 65 68 68					31 37	
Furfural 98-01-	1	61	60	10		61 61 61 61					45 16	
Resmethrin 10453-86	-8	84	58	5 28		4 86 84 86 86					68 18	
Pyridine 110-86	-1	76	58	6 20		7 83 68 83 83					58 25	
Endrin 72-20-	8	58	56	7		58 57 58 57					46 12	
Methyl acrylate	96-33-3	83	56	4	78	1 102		67 102 102			1 101	
Arochlor 1254	11097-69-1	66	55	9	3	2 70 67 70 70					35 35	
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112	54	6		114 56			114 57		94 20	
Ethylene thiourea	96-45-7	57	54	8 20		8 65 58 65 65					49 16	
Heptachlor	76-44-8	54	53	7		54 54 54 54					45	9
Permethrin 52645-53	-1	83	51	8	39	7 103		87 103 103			32	71
Bromoform 75-25-	2	53	50	6	3	2 68 67 68 68					35 33	
1,3-Dichlorobenzene 541-73	-1	52	49	6	3	3 62 61 62 62					38 24	
Ethyl chloride	75-00-3	54	49	9	6	4 64 60 64 64					43 21	
p-Nitrophenol 100-02	-7	54	48	8	6	2 55 49 55 55					42 13	
Trichloroacetic acid	76-03-9	55	48	6 15		6 62 57 62 62					30 32	
Uranium, natural	7440-61-1	58	47	7 37 10 59 51 59 59							49 10	
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55 55 55 55				44 11	

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,2,4-Trichlorobenzene 120-82	-1	48	46	7	3	3 56 56 56 56					35	21
Bromomethane 74-83-	9	53	46	7	3	2 63 61 63 63					45	18
Dicamba 1918-00	-9	50	45	5	1	1 58 57 58 58					44	14
Diethyl phthalate	84-66-2	51	45	16	14 10 56 53 56 56						34	22
Heptachlor epoxide	1024-57-3	45	44	6			45 45 45 45				38	7
N,N-Dimethylaniline 121-69	-7	65	44	5	30	4 68 55 68 68					36	32
Dieldrin 60-57-	1	45	44	7			45 45 45 45				36	9
Aldrin 309-00	-2	44	43	7			44 43 44 44				34	10
di(2-ethylhexyl)Adipate 103-23	-1	46	42	16	18	5 90 41 50 50					30	20
Sodium cyanide	143-33-9	88	42	5	53	5 90 57 90 90					63	27
Cyanide, free	57-12-5	46	42	7	9	6 48 47 48 48					37	11
Tetraethyl lead	78-00-2	97	42	3	56	4 99 57 99 99					89	10
Hydrazine/hydrazine sulfate	302-01-2	66	40	5	40 10 69 51 69 69						53	16
Pentafluoroethane 354-33	-6	56	40	3	31	2 86 47 86 86					8	78
Bromochloromethane 74-97-	5	47	40	10	5	5 55 50 55 55					33	22
3-Methylphenol 108-39	-4	40	39	8	9	6 43 40 43 43					31	12
Diuron 330-54	-1	65	39	9	34	8 72 54 72 71					39	33
2,4-Dinitrotoluene 121-14	-2	39	38	6	2	1 43 41 43 43					27	16
Bromodichloromethane 75-27-	4	41	38	5	2	1 50 50 50 50					31	19
2-Nitropropane 79-46-	9	43	38	7	13	7 43 40 43 43					35	8
1,2-Dichloropropane 78-87-	5	40	37	5			51 50 51 51				32	19
Benzo [a] pyrene	50-32-8	38	36	7	7	1 41 41 41 41					22	19
Hexachloroethane 67-72-	1	38	36	7	1	1 39 36 39 39					31	8
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37	36	7			37 37 37 37				29	8
1,1,2-Trichloroethane 79-00-	5	39	36	6	2	2 51 49 51 51					31	20
Dibromochloromethane 124-48	-1	38	35	5	3	2 48 48 48 48					30	18
4-Methylphenol 106-44	-5	36	34	9	7	5 39 36 39 39					26	13
Simazine 122-34	-9	43	34	4			46 38 46 46				32	14
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	35	34	7	1	1 37 37 37 37					25	12
Acenaphthene 83-32-	9	35	34	7			37 37 37 37				28	9
Malathion 121-75	-5	74	33	5	40	2 80 70 80 80					59	21

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Arochlor 1016	12674-11-2	37	33	5	1	1 41 41 41 41					14	27
2,4,6-Trichlorophenol 88-06-	2	34	33	7	1	1 35 33 35 35					21	14
2-Chlorophenol 95-57-	8	34	33	6			36 34 36 36				27	9
Decabromodiphenyl ether (DBDPE)	1163-19-5	51	32	11	27	5 56 46 56 56					21	35
Anthracene 120-12	-7	36	32	9	5	2 38 37 38 38					22	16
Atrazine 1912-24	-9	34	32	5			37 37 37 37				27	10
Amdro 67485-29	-4	64	32	2	35	4 77 51 77 75					32	45
Phenanthrene 85-01-	8	34	32	9	5	1 36 32 36 36					21	15
Chrysene 218-01	-9	32	31	7	7	1 34 34 34 34					21	13
Dichlorvos 62-73-	7	48	31	4	15	3 49 42 49 49					37	12
Dimethylamine 124-40	-3	33	30	7	7	3 38 34 38 38					24	14
Triethylene glycol monobutyl ether	143-22-6	48	30	4	22	1 60 45 60 60					17	43
Fluoranthene 206-44	-0	30	30	6	8	2 32 31 32 32					26	6
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31	30	6			31 31 31 31				25	6
Mercuric chloride	7487-94-7	43	30	5	22	7 50 44 50 50					31	19
1,1-Dichloroethane 75-34-	3	33	30	5			45 44 45 45				23	22
Nitrobenzene 98-95-	3	36	30	5	6	1 37 36 37 37					28	9
2,4,6-Trinitrotoluene 118-96	-7	36	29	5			51 46 51 51				35	16
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30	29	6			30 30 30 30				24	6
Hydrogen cyanide	74-90-8	29	29	12	2	2 32 31 32 32					20	12
Carbon disulfide	75-15-0	37	29	6	6	1 40 32 40 40					24	16
1,1,2,2-Tetrachloroethane 79-34-	5	32	29	4	1	1 43 42 43 43					26	17
Pyrene 129-00	-0	28	28	7			30 30 30 30				22	8
beta-Hexachlorocyclohexane 319-85	-7	29	28	6			29 29 29 29				23	6
2,4-Dinitrophenol 51-28-	5	30	28	9	5	4 34 30 34 34					18	16
Pendimethalin 40487-42	-1	27	27	4			32 32 32 32				15	17
Benzo(a)anthracene 56-55-	3	31	27	9	12	3 33 32 33 33					14	19
Selenium sulfide	7446-34-6	27	27	1			27 27 27 27				27	
Nitric Oxide	10102-43-9	27	26	9	2	2 43 34 43 43					10	33
N-Nitrosodiphenylamine 86-30-	6	27	26	5	11	1 29 29 29 29					23	6
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 26911-41	-0	27	25	6	9	4 46 42 46 46					18	28

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Disulfoton 298-04	-4	25	25	4			25 25 25 25				21	4
Caprolactam 105-60	-2	23	23	8	5	3 23 22 23 23					7 16	
2,4-Dimethylphenol 105-67	-9	24	23	7	4	3 26 23 26 26					16 10	
Glyphosate 1071-83	-6	31	23	4 14		2 33 27 33 32					25	8
Trifluralin 1582-09	-8	25	23	5			27 26 27 27				19	8
Benzo(b)fluoranthene 205-99	-2	23	23	6	7	1 25 25 25 25					13 12	
Acephate 30560-19	-1	25	23	4	5	2 30 27 30 30					20 10	
Thallium nitrate	10102-45-1	22	22	5	1	1 27 25 27 27					9 18	
Benzo(k)fluoranthene 207-08	-9	22	22	7	7	1 24 24 24 24					11 13	
Toxaphene 8001-35	-2	24	22	6	2	1 24 24 24 24					20	4
Creosote 8001-58	-9	31	22	9 12		5 32 22 32 32					25	7
1,2-Dibromo-3-chloropropane 96-12-	8	23	22	5	1	1 30 30 30 30					20 10	
Maleic anhydride	108-31-6	21	21	6	4	3 21 18 21 21					18	3
Indeno[1,2,3-cd]pyrene 193-39	-5	21	21	6	7	1 23 23 23 23					11 12	
Dibenzo(a,h)anthracene 53-70-	3	21	21	6	7	1 23 23 23 23					11 12	
N-Nitroso-di-N-propylamine 621-64	-7	22	21	4			23 23 23 23				16	7
Prometon 1610-18	-0	26	20	5	5	1 28 25 28 28					19	9
Diquat 85-00-	7	31	20	4 15		2 32 22 32 32					22 10	
Alachlor 15972-60	-8	19	19	5			19 19 19 19				15	4
Hexachlorophene 70-30-	4	24	19	6 12		5 24 13 24 24					23	1
beta-Chloronaphthalene 91-58-	7	22	19	6	5	2 24 23 24 24					14 10	
Acenaphthylene 208-96	-8	18	18	6			20 20 20 20				15	5
2,6-Dinitrotoluene 606-20	-2	19	18	4			20 20 20 20				13	7
Benzidine 92-87-	5	22	18	6			23 22 23 23				18	5
Bis(chloroethyl)ether 111-44	-4	18	17	4			20 19 20 20				12	8
cis-1,2-Dichloroethylene 156-59	-2	18	17	4	1	1 27 27 27 27					14 13	
Fluorene 86-73-	7	17	17	6			19 19 19 19				13	6
2,4,5-Trichlorophenol 95-95-	4	18	17	5			21 20 21 21				14	7
Propargyl alcohol	107-19-7	17	16	5	6	3 17 17 17 17					14	3
Hexazinone 51235-04	-2	28	16	3	8	1 29 17 29 29					20	9
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17 17 17 17				16	1

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16	16	4			17	17 17 17			16	1
Azobenzene 103-33	-3	16	15	4			17	17 17 17			10	7
Dacthal 1861-32	-1	20	15	5			20	19 20 20			14	6
Metribuzin 21087-64	-9	15	15	4			16	16 16 16			11	5
4-Aminopyridine 504-24	-5	15	15	2			16	16 16 16			14	2
1-Chlorobutane 109-69	-3	14	14	2			14	14 14 14			4	10
Dibenzofuran 132-64	-9	15	14	8			17	17 17 17			6	11
Benzo[g,h,i]perylene 191-24	-2	14	14	5			19	19 19 19			11	8
N-Nitrosodimethylamine 62-75-	9	15	14	4			16	16 16 16			11	5
Dalapon (sodium salt)	75-99-0	14	14	4			14	14 14 14			13	1
Bis(2-chloroisopropyl) ether	108-60-1	14	13	4			14	14 14 14			11	3
Benefin 1861-40	-1	15	13	4			16	16 16 16			15	1
Pydrin 51630-58	-1	14	13	4			14	14 14 14			14	
Phosphine 7803-51	-2	16	13	4	8 2		16	8	16	16	9	7
Dinoseb 88-85-	7	13	13	4			13	13 13 13			13	
Bis(2-chloroethoxy)methane 111-91	-1	13	12	4			14	14 14 14			10	4
3,3-Dimethylbenzidine 119-93	-7	13	12	3	1	1	14	13 14 14			11	3
Bayleton 43121-43	-3	13	12	4			15	15 15 15			10	5
Potassium silver cyanide	506-61-6	13	12	3	3	2	14	13 14 14			9	5
Silver cyanide	506-64-9	29	12	2	12	3	29	16 29 29			24	5
Ethyl carbamate	51-79-6	12	12	6	2	2	12	12 12 12			7	5
Cypermethrin 52315-07	-8	21	12	1	13	2	26	16 26 26			9	17
Copper cyanide	544-92-3	20	12	2	5	1	20	12 20 20			17	3
2,6-Dimethylphenol 576-26	-1	12	12	3	2	1	12	11 12 12			9	3
1,1,1,2-Tetrachloroethane 630-20	-6	13	12	4	2	2	19	19 19 19			10	9
Baythroid 68359-37	-5	32	12	1	20	2	50	38 50 50			11	39
Pentachloronitrobenzene 82-68-	8	12	12	5			12	12 12 12			12	
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13	13 13 13			10	3
1,2,3-Trichloropropane 96-18-	4	13	12	4			20	20 20 20			11	9
Zinc phosphide	1314-84-7	18	11	3	4	1	19	10 19 19			11	8
Propachlor 1918-16	-7	13	11	5			14	13 14 14			7	7

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Oxadiazon 19666-30	-9	11	11	3			14 13 14 14				6	8
Naled 300-76	-5	17	11	2	7	2	18 14 18 16				13	5
Tebuthiuron 34014-18	-1	16	11	5	8	2	17 12 17 17				5	12
Acetophenone 98-86-	2	11	11	5			14 14 14 14				7	7
Picloram 1918-02	-1	10	10	3	2	1	10 10 10 10				10	
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10	10	3	10	4	10	5	10 10		10	
Quinone 106-51	-4	10	10	4	3	3	11 11 11 11				5	6
Chlorobenzilate 510-15	-6	12	10	5			12 11 12 12				6	6
2-Chloroacetophenone 532-27	-4	10	10	6	1	1	10 10 10 10				9	1
Dimethoate 60-51-	5	11	10	4			11 11 11 11				10	1
Arsine 7784-42	-1	11	10	3	4	1	11 4		11	11	7	4
Captan 133-06	-2	9	9	4	3	3	10 10 10 10				8	2
Oryzalin 19044-88	-3	13	9	3	5	1	13 13 13 13				10	3
Pentabromodiphenyl ether	32534-81-9	12	9	4	5	3	14 12 14 14				6	8
Iprodione 36734-19	-7	9	9	3			14 13 14 14				7	7
Metolachlor 51218-45	-2	9	9	4			9 9 9 9				5	4
Cacodylic acid	75-60-5	9	9	5			11 11 11 11				6	5
Endothall 145-73	-3	8	8	2			8 8 8 8				6	2
Methomyl 16752-77	-5	20	8	2	13	1	22 16 22 22				10	12
Pronamide 23950-58	-5	8	8	4			8 8 8 8				7	1
Zinc cyanide	557-21-1	9	8	2	1	1	9 8 9 9				6	3
Aluminum sulfamate	7773-06-0	9	8	3	1	1	9 8 9 9				9	
2,4-Diaminotoluene 95-80-	7	8	8	2			8 8 8 8				6	2
Tetrachlorovinphos 961-11	-5	8	8	2			8 8 8 8				5	3
Chlorpropham 101-21	-3	7	7	3			8 8 8 8				4	4
Sodium diethyldithiocarbamate	148-18-5	7	7	3	2	2	7 7 7 7				4	3
Vernam 1929-77	-7	7	7	4			7 7 7 7				5	2
Parathion 56-38-	2	8	7	4			8 8 8 8				7	1
Metalaxyl 57837-19	-1	9	7	2			10 10 10 10				6	4
Paclobutrazol 76738-62	-0	7	7	1			7 6 7 7				6	1
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7	7	3			7 7 7 7				7	

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Benzyl chloride	100-44-7	6	6	5			7 6 7 7				4 3	
p-Chloroaniline 106-47	-8	7	6	3			8 8 8 8				5 3	
Maneb 12427-38	-2	6	6	1			6 6 6 6				6	
Chloramben 133-90	-4	6	6	3			6 6 6 6				5 1	
Merphos 150-50	-5	6	6	2			6 6 6 6				3 3	
Benomyl 17804-35	-2	6	6	2			6 4 6 6				5 1	
Paraquat 1910-42	-5	8	6	3			8 8 8 8				6 2	
Fenamiphos 22224-92	-6	6	6	3			6 6 6 6				4 2	
Methyl parathion	298-00-0	7	6	3			7 7 7 7				5 2	
Propylene glycol monoethyl ether	52125-53-8	6	6	2 2 1 6 6 6 6							4 2	
Strychnine 57-24-	9	7	6	1			7 7 7 7				7	
Warfarin 81-81-	2	9	6	2			9 9 9 9				9	
Ametryn 834-12	-8	6	6	5			6 6 6 6				2 4	
Thallic oxide	1314-32-5	5	5	4			6 6 6 6				3 3	
Ethyleneimine 151-56	-4	5	5	3			5 5 5 5				3 2	
Butylate 2008-41	-5	5	5	3			5 5 5 5				3 2	
Aluminum phosphide	20859-73-8	19	5	3 1 6		1 1 9 17 19 19					12	7
Molinate 2212-67	-1	5	5	3			5 5 5 5				3 2	
Oxamyl 23135-22	-0	5	5	3			5 5 5 5				5	
Cyanogen 460-19	-5	5	5	3			6 5 6 6				1 5	
Carboxin 5234-68	-4	5	5	2			5 5 5 5				2 3	
Nitroguanidine 556-88	-7	5	5	3 3 3 5 5 5 5							3 2	
Ethion 563-12	-2	6	5	3			6 6 6 6				4 2	
2,3,4,6-Tetrachlorophenol 58-90-	2	5	5	3			6 6 6 6				3 3	
Fluridone 59756-60	-4	7	5	3 4 1 8 7 8 8							3 5	
1,3,5-Trinitrobenzene 99-35-	4	6	5	3 3 1 7 7 7 7							5 2	
Allyl chloride	107-05-1	4	4	2			4 4 4 4				3 1	
Adiponitrile 111-69	-3	4	4	3			4 4 4 4				3 1	
Carbofuran 1563-66	-2	4	4	3			4 4 4 4				4	
Cyanazine 21725-46	-2	4	4	3			4 4 4 4					
Tetraethyldithiopyrophosphate 3689-24	-5	4	4	3			4 4 4 4				4	

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Carbonyl sulfide	463-58-1	4	4	2			4 4 4 4				1 3	
Thallium acetate	563-68-8	4	4	3			4 4 4 4				3 1	
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4	4	2			4 4 4 4				1 3	
Pentachlorobenzene 608-93	-5	4	4	4 1	1 4 4 4 4						3 1	
Avermectin B1	65195-55-3	4	4	2			4 4 4 4				4	
Prometryn 7287-19	-6	4	4	2			4 4 4 4				2 2	
Phosmet 732-11	-6	5	4	3			5 4 5 5				4 1	
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4	4	4			4 4 4 4				2 2	
Dimethyl sulfate	77-78-1	4	4	3 2	1 4 4 4 4						3 1	
Rotenone 83-79-	4	5	4	2 2	1 6 6 6 6						5 1	
1,2,4,5-Tetrachlorobenzene 95-94-	3	4	4	4 1	1 4 4 4 4						3 1	
Endosulfan 115-29	-7	3	3	2			3 3 3 3				3	
Aldicarb 116-06	-3	3	3	3			3 3 3 3				3	
Zineb 12122-67	-7	3	3	2 2	2 3 3 3 3						1 2	
Propazine 139-40	-2	3	3	2			3 3 3 3				1 2	
Aldicarb sulfone	1646-88-4	3	3	3			3 3 3 3				3	
Bromoxynil octanoate	1689-99-2	3	3	1			3 3 3 3				3	
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3	3	2			3 3 3 3				3	
Norflurazon 27314-13	-2	3	3	2			3 3 3 3				2 1	
Amitraz 33089-61	-1	3	3	2			3 3 3 3				1 2	
Oxyfluorfen 42874-03	-3	3	3	3			4 4 4 4				3 1	
Terbacil 5902-51	-2	3	3	3			3 3 3 3				2 1	
Nonabromodiphenyl ether	63936-56-1	3	3	2			3 3 3 3				2 1	
Tralomethrin 66841-25	-6	3	3	1 1	1 6 6 6 6							
Ally 74223-64	-6	4	3	1 2	1 6 6 6 6						3 3	
Bipenthrin 82657-04	-3	4	3	2	2	1 12 10 12 12						
Terbutryn 886-50	-0	3	3	2			3 3 3 3				1 2	
Fonofos 944-22	-9	3	3	3			3 3 3 3				2 1	
Diphenamid 957-51	-7	3	3	3			3 3 3 3				1 2	
Benzotrichloride 98-07-	7	3	3	2			3 3 3 3				2 1	
Dodine 2439-10	-3	3	2	2			3 2 3 3				3	

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,4-Dibromobenzene 106-37	-6	2	2	1			2 2 2 2				1	1
N-Nitrosodiethanolamine 1116-54	-7	4	2	2			4 2 4 2				2	2
Dimethyl terephthalate (DMT)	120-61-6	2	2	1			2 2 2 2				2	
Methacrylonitrile 126-98	-7	2	2	2			2 2 2 2				1	1
Aramite 140-57	-8	2	2	2			2 2 2 2				2	
Bidrin 141-66	-2	2	2	2			2 2 2 2				1	1
Napropamide 15299-99	-7	2	2	2			2 2 2 2				1	1
Nitrapyrin 1929-82	-4	2	2	2	1 1 2 2 2 2						2	
p,p'-Dibromodiphenyl ether	2050-47-7	2	2	2			2 2 2 2				1	1
Octabromodiphenyl ether	32536-52-0	2	2	1			2 2 2 2				2	
Vinclozolin 50471-44	-8	2	2	1			4 4 4 4				2	2
Calcium cyanide	592-01-8	2	2	2			2 2 2 2				2	
1,2,4-Tribromobenzene 615-54	-3	2	2	1			2 2 2 2				2	
Acifluorfen, sodium	62476-59-9	2	2	2			2 2 2 2				2	
Fluvalinate 69409-94	-5	2	2	1			2 2 2 2				2	
Methyl chlorocarbonate	79-22-1	4	2	2	3 1 4 3 4 4						3	1
Isoxaben 82558-50	-7	2	2	1			4 3 4 4				2	2
N-Nitroso-di-n-butylamine 924-16	-3	2	2	2			2 2 2 2				2	
3,4-Dimethylphenol 95-65-	8	3	2	1	3 1 3 1 3 3							
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1			1 1 1 1				1	
Allyl alcohol	107-18-6	1	1	1			1 1 1 1				1	
Furan 110-00	-9	1	1	1			1 1 1 1				1	
1,2-Diphenylhydrazine 122-66	-7	1	1	1			1 1 1 1				1	
Maleic hydrazide	123-33-1	1	1	1			1 1 1 1					
Chlordane (technical)	12789-03-6	1	1	1			1 1 1 1				1	
Nitrate 14797-55	-8	1	1	1			2 2 2 2					
Fluometuron 2164-17	-2	1	1	1			1 1 1 1				1	
Triallate 2303-17	-5	1	1	1			1 1 1 1				1	
Thiobencarb 28249-77	-6	1	1	1			1 1 1 1				1	
Linuron 330-55	-2	1	1	1			1 1 1 1				1	
Isopropalin 33820-53	-0	1	1	1			1 1 1 1				1	

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
t-Butyl chloride	507-20-0	1	1	1			1 1 1 1					
Barium cyanide	542-62-1	6	1	1 6 1 6 3 6 6							6	
N-Nitrosodiethylamine 55-18-	5	1	1	1			1 1 1 1				1	
Sodium fluoroacetate	62-74-8	1	1	1			2 2 2 2				1 1	
Diethyl sulfate	64-67-5	1	1	1			1 1 1 1					
Chlorsulfuron 64902-72	-3	1	1	1 1 1 2 2 2 2							1 1	
Thallium carbonate	6533-73-9	1	1	1			1 1 1 1				1	
Flutolanil 66332-96	-5	1	1	1			2 2 2 2					
Sethoxydim 74051-80	-2	2	1	1			3 3 3 3				1 2	
Thallium (I) sulfate	7446-18-6	1	1	1			1 1 1 1				1	
Bromotrichloromethane 75-62-	7	1	1	1			1 1 1 1					
Thallium chloride	7791-12-0	1	1	1			1 1 1 1				1	
Merphos oxide	78-48-8	1	1	1			2 2 2 2				1 1	
N-Nitrosopyrrolidine 930-55	-2	1	1	1			1 1 1 1				1	
Captafol 2425-06	-1											
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Express 101200-4	8-0											
Methamidophos 10265-92	-6											
Monchloramine 10599-90	-3											
Chloromethyl methyl ether	107-30-2											
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
2,4-Dichlorophenol 120-83	-2											
Propham 122-42	-9											
p-Chlorophenyl methyl sulfide	123-09-1											
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Nickel carbonyl	13463-39-3											
Quinalphos 13593-03	-8											
Phenmedipham 13684-63	-4											
Diisopropyl methylphosphonate	1445-75-6											
Nitrite 14797-65	-0											

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Alar 1596-84	-5											
Ethephon 16672-87	-0											
Bromoxynil 1689-84	-5											
Isopropyl methyl phosphonic acid	1832-54-8											
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Phosolone 2310-17	-0											
Propargite 2312-35	-8											
Thiophanate-methyl 23564-05	-8											
Mirex 2385-85	-5											
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene 25329-35	-5											
Pirimiphos-methyl 29232-93	-7											
Asulam 3337-71	-1											
Diazomethane 334-88	-3											
Acetochlor 34256-82	-1											
Diflubenzuron 35367-38	-5											
Imazalil 35554-44	-0											
Hexabromodiphenyl ether	36483-60-0											
Fosetyl-al 39148-24	-8											
Danitol 39515-41	-8											
Tetrabromodiphenyl ether	40088-47-9											
Difenzoquat 43222-48	-6											
Tribromodiphenyl ether	49690-94-0											
Formaldehyde 50-00-	0											
Chlorine cyanide	506-77-4											
o-Dinitrobenzene 528-29	-0											
Bis(chloromethyl) ether	542-88-1											
Carbosulfan 55285-14	-8											
Dimethipin 55290-64	-7											
beta-Propiolactone 57-57-	8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Tridiphane 58138-08	-2											
Vinyl bromide	593-60-2											
Dibromodichloromethane 594-18	-3											
1,1,2-Trichloropropane 598-77	-6											
Propiconazole 60207-90	-1	0					4 3 4 4					
Furmecyclox 60568-05	-0											
Methyl isocyanate	624-83-9											
Selenourea 630-10	-4											
Cyromazine 66215-27	-8											
Prochloraz 67747-09	-5											
Cyhalothrin/karate 68085-85	-8											
Haloxypop-methyl 69806-40	-2											
Propanil 709-98	-8											
Fomasafen 72178-02	-0											
Apollo 74115-24	-5											
Radium 226,228	7440-14-4											
Propyleneimine 75-55-	8											
Glycidaldehyde 765-34	-4											
Assure 76578-14	-8											
Glufosinate-ammonium 77182-82	-2											
Trichlorocyclopentadiene 77323-84	-3											
Lactofen 77501-63	-4											
Fluorine, soluble fluoride	7782-41-4											
Savey 78587-05	-0											
Harmony 79277-27	-3											
Demeton 8065-48	-3											
Imazaquin	81335-37-7	0					2 2 2 2					
Pursuit 81335-77	-5											
Triasulfuron 82097-50	-5											
Londax 83055-99	-6											
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											

TABLE A-3b. Unique HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Stock Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Phthalic anhydride	85-44-9											
Nustar 85509-19	-9											
Hexachlorobutadiene 87-68-	3											
Hexabromobenzene 87-82-	1											
Systhane	88671-89-0	0					1 1 1 1					
ortho-Anisidine 90-04-	0											
Chlorimuron-ethyl 90982-32	-4											
p-Chlorophenyl methyl sulfoxide	934-73-6											
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
Methidathion 950-37	-8											
p-Chlorophenyl methyl sulfone	98-57-7											

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Nickel 7440-02	-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
Copper 7440-50	-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
Methanol 67-56-	1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Manganese 7439-96	-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
1,1,1-Trichloroethane 71-55-	6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Molybdenum 7439-98	-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Cadmium 7440-43	-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
Silver 7440-22	-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
Dichloromethane 75-09-	2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Ethylbenzene 100-41	-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
Antimony 7440-36	-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
Methylene Diphenyl Diisocyanate (monomeric MDI) 101-68	-8	874	710	39	258	47	1062	941	1062	1054	493	569
n-Heptane 142-82	-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	1588	974	1588	1584	942	646
Dichlorodifluoromethane 75-71-	8	936	655	38	391	89	953	758	953	953	854	99
Ammonia 7664-41	-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
n-Butanol 71-36-	3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Antimony trioxide	1309-64-4	844	461	34	511	49	906	708	906	904	433	473
Chlorodifluoromethane 75-45-	6	714	514	34	292	60	774	587	774	771	488	286
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808	503

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Tetrachloroethylene 127-18	-4	853	646	33	251	45	929 796 929 929				624	305
Styrene 100-42	-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
Beryllium and compounds	7440-41-7	340	296	31	74	24	379 340 379 378				220	159
Trichlorofluoromethane 75-69-	4	521	427	31	136	48	535 485 535 534				459	76
Selenium and compounds	7782-49-2	253	234	31	41	23	296 267 296 296				170	126
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
Trichloroethylene 79-01-	6	486	369	30	178	45	568 476 568 568				294	274
1,4-Dioxane 123-91	-1	571	469	28	202	63	623 520 623 623				408	215
Asbestos 1332-21	-4	470	421	28	212	47	475 365 475 474				417	58
Cyclohexanone 108-94	-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600 506 600 596				253	347
Naphthalene 91-20-	3	1419	718	27	879	77	1635	928	1635	1626	860	775
Vanadium pentoxide	1314-62-1	569	560	26	52	9	587 565 587 587				340	247
d-Limonene 5989-27	-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
1,1,1,2-Tetrafluoroethane 811-97	-2	598	353	24	347	52	775 575 775 775				132	643
2-Methoxyethanol 109-86	-4	511	273	22	321	43	559 357 559 558				332	227
Tricresol 1319-77	-3	268	175	22	124	19	272 217 272 272				207	65
Vinyl acetate	108-05-4	740	688	21	114	26	953 897 953 952				480	473
2-Ethoxyethanol 110-80	-5	655	475	21	221	47	688 547 688 685				534	154
Hydroquinone 123-31	-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
N,N-Dimethylformamide 68-12-	2	283	228	19	120	21	363 297 363 363				196	167
1,2-Epoxybutane 106-88	-7	268	203	18	124	26	300 256 300 300				171	129
Acrylonitrile 107-13	-1	239	230	18	37	12	265 246 265 265				131	134
Chlorine 7782-50	-5	220	162	18	115	22	241 140 241 241				132	109
Ethylene diamine	107-15-3	342	235	17	166	36	377 320 377 375				170	207
Chlorobenzene 108-90	-7	193	155	17	60	19	213 188 213 213				134	79
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118 116 118 118				107	11
Acrylic acid	79-10-7	199	134	17	99	14	234 191 234 234				99	135

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,2-Dichlorobenzene 95-50-	1	225	176	17	68	19 249 211 249	249				162	87
Cumene 98-82-	8	1481	778	17	1129	49 1632	1041	1632	1631	386	1246	
di(2-ethylhexyl)Adipate 103-23	-1	46	42	16	18	5 50 41 50 50					30	20
1,4-Dichlorobenzene 106-46	-7	223	183	16	53	11 246 219 246	245				171	75
Epichlorohydrin 106-89	-8	507	445	16	148	26 559 496 559	558				299	260
1,2-Dichloroethane 107-06	-2	396	165	16	96	11 440 185 440	219				318	122
Sodium azide	26628-22-8	776	667	16	83	44 1100	1043	1100	1096	328		772
Diethyl phthalate	84-66-2	51	45	16	14	10 56 53 56 56					34	22
Acetaldehyde 75-07-	0	183	169	15	51	26 323 280 323	323				49	274
1,1-Biphenyl 92-52-	4	97	82	15	48	14 98 75 98 98					55	43
Diphenylamine 122-39	-4	100	89	14	68	26 123 110 123	123				54	69
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31 2791	2673	2791	2791		2774	17
Carbon tetrachloride	56-23-5	270	240	14	73	18 292 253 292	291				203	89
Aniline 62-53-3		131	113	14	35	18 140 121 140	140				95	45
Formic acid	64-18-6	250	188	14	86	20 271 231 271	271				171	100
Bisphenol A	80-05-7	405	313	14	191	26 482 405 482	481				166	316
Triethylamine 121-44	-8	436	404	13	299	11 459 243 459	459				190	269
Chromium (VI)	18540-29-9	139	136	13	37	11 147 133 147	147				116	31
Phenylmercuric acetate	62-38-4	239	230	13	42	6 240 200 240	240				222	18
Isophorone 78-59-	1	200	167	13	13	7 237 212 237	237				170	67
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32 2283	1440	2283	2263		1096	1187
Pentachlorophenol 87-86-	5	108	96	13	11	4 110		99 110 110			86	24
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83	80	12	32	15 102		86 102 102			57	45
Thiram 137-26	-8	90	84	12	53	6 93 71 93 93					57	36
gamma-Hexachlorocyclohexane 58-89-	9	82	73	12	11	4 82 77 82 82					73	9
Hydrogen cyanide	74-90-8	29	29	12	2	2 32 31 32 32					20	12
Propylene oxide	75-56-9	205	191	12	54	23 246 224 246	246				137	109
2-Methylphenol 95-48-	7	95	88	12	22	8 103		95 103 103			62	41
Decabromodiphenyl ether (DBDPE)	1163-19-5	51	32	11	27	5 56 46 56 56					21	35
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5 742 342 742	731				533	209
o-Chlorotoluene 95-49-	8	72	68	11	13	6 94 90 94 94					56	38

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Tributyltin oxide	56-35-9	98	91	10	6	6	106	98	106 106		64	42
Bromochloromethane 74-97-	5	47	40	10	5	5	55 50 55 55				33	22
Furfural 98-01-	1	61	60	10			61 61 61 61				45	16
Nitric Oxide	10102-43-9	27	26	9	2	2	43 34 43 43				10	33
4-Methylphenol 106-44	-5	36	34	9	7	5	39 36 39 39				26	13
Arochlor 1254	11097-69-1	66	55	9	3	2	70 67 70 70				35	35
Hexachlorobenzene 118-74	-1	85	79	9	5	1	88 83 88 88				66	22
Anthracene 120-12	-7	36	32	9	5	2	38 37 38 38				22	16
Potassium cyanide	151-50-8	152	105	9	62	14	161 128 161 161				115	46
trans-1,2-Dichloroethylene 156-60	-5	100	77	9	54	5	136 108 136 136				29	107
Diuron 330-54	-1	65	39	9	34	8	72 54 72 71				39	33
2,4-Dinitrophenol 51-28-	5	30	28	9	5	4	34 30 34 34				18	16
Benzo(a)anthracene 56-55-	3	31	27	9	12	3	33 32 33 33				14	19
Ammonium acetate	631-61-8	360	206	9	125	12	368 334 368 367				204	164
Ethyl chloride	75-00-3	54	49	9	6	4	64 60 64 64				43	21
Creosote 8001-58	-9	31	22	9	12	5	32 22 32 32				25	7
Coke oven emissions	8007-45-2	74	61	9	16	7	77 68 77 77				70	7
Phenanthrene 85-01-	8	34	32	9	5	1	36 32 36 36				21	15
p-Nitrophenol 100-02	-7	54	48	8	6	2	55 49 55 55				42	13
Benzaldehyde 100-52	-7	93	78	8	39	4	101 71		101 94		60	41
Caprolactam 105-60	-2	23	23	8	5	3	23 22 23 23				7	16
3-Methylphenol 108-39	-4	40	39	8	9	6	43 40 43 43				31	12
m-Phenylenediamine 108-45	-2	83	68	8	40	7	89 69 89 89				49	40
Dibenzofuran 132-64	-9	15	14	8			17 17 17 17				6	11
Chlorothalonil 1897-45	-6	174	162	8	3	1	205 174 205 205				114	91
Permethrin 52645-53	-1	83	51	8	39	7	103	87	103 103		32	71
Acrylamide 79-06-	1	83	80	8	6	4	303 297 303 303				39	264
Ethylene thiourea	96-45-7	57	54	8	20	8	65 58 65 65				49	16
2,4-Dimethylphenol 105-67	-9	24	23	7	4	3	26 23 26 26				16	10
Cyclohexylamine 108-91	-8	145	111	7	40	5	154 129 154 154				114	40
Baygon 114-26	-1	99	83	7	12	5	106	98	106 106		84	22

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,2,4-Trichlorobenzene 120-82	-1	48	46	7	3	3 56 56 56 56					35	21
Dimethylamine 124-40	-3	33	30	7	7	3 38 34 38 38					24	14
Pyrene 129-00	-0	28	28	7			30 30 30 30				22	8
Benzo(k)fluoranthene 207-08	-9	22	22	7	7	1 24 24 24 24					11	13
Chrysene 218-01	-9	32	31	7	7	1 34 34 34 34					21	13
Chlorpyrifos 2921-88	-2	153	102	7	3	3 166 144 166 166					110	56
Aldrin 309-00	-2	44	43	7			44 43 44 44				34	10
Benzo [a] pyrene	50-32-8	38	36	7	7	1 41 41 41 41					22	19
Cyanide, free	57-12-5	46	42	7	9	6 48 47 48 48					37	11
Dieldrin 60-57-	1	45	44	7			45 45 45 45				36	9
Hexachloroethane 67-72-	1	38	36	7	1	1 39 36 39 39					31	8
Endrin 72-20-	8	58	56	7			58 57 58 57				46	12
Methoxychlor 72-43-	5	62	62	7	1	1 63 63 63 63					58	5
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37	36	7			37 37 37 37				29	8
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	35	34	7	1	1 37 37 37 37					25	12
Uranium, natural	7440-61-1	58	47	7	37 10 59 51 59 59						49	10
Bromomethane 74-83-	9	53	46	7	3	2 63 61 63 63					45	18
Heptachlor	76-44-8	54	53	7			54 54 54 54				45	9
2-Nitropropane 79-46-	9	43	38	7	13	7 43 40 43 43					35	8
Acenaphthene 83-32-	9	35	34	7			37 37 37 37				28	9
2,4,6-Trichlorophenol 88-06-	2	34	33	7	1	1 35 33 35 35					21	14
Heptachlor epoxide	1024-57-3	45	44	6			45 45 45 45				38	7
Maleic anhydride	108-31-6	21	21	6	4	3 21 18 21 21					18	3
Pyridine 110-86	-1	76	58	6	20	7 83 68 83 83					58	25
2,4-Dinitrotoluene 121-14	-2	39	38	6	2	1 43 41 43 43					27	16
Folpet 133-07	-3	64	60	6	8	6 68 65 68 68					31	37
Indeno[1,2,3-cd]pyrene 193-39	-5	21	21	6	7	1 23 23 23 23					11	12
Benzo(b)fluoranthene 205-99	-2	23	23	6	7	1 25 25 25 25					13	12
Fluoranthene 206-44	-0	30	30	6	8	2 32 31 32 32					26	6
Acenaphthylene 208-96	-8	18	18	6			20 20 20 20				15	5
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	27	25	6	9	4 46 42 46 46					18	28

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31	30	6			31 31 31 31				25	6
beta-Hexachlorocyclohexane 319-85	-7	29	28	6			29 29 29 29				23	6
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30	29	6			30 30 30 30				24	6
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112	54	6			114 56		114 57		94	20
Ethyl carbamate	51-79-6	12	12	6	2	2	12 12 12 12				7	5
2-Chloroacetophenone 532-27	-4	10	10	6	1	1	10 10 10 10				9	1
Dibenzo(a,h)anthracene 53-70-	3	21	21	6	7	1	23 23 23 23				11	12
1,3-Dichlorobenzene 541-73	-1	52	49	6	3	3	62 61 62 62				38	24
Carbaryl 63-25-	2	89	69	6	19	2	93 84 93 93				73	20
Hexachlorophene 70-30-	4	24	19	6	12	5	24 13 24 24				23	1
Carbon disulfide	75-15-0	37	29	6	6	1	40 32 40 40				24	16
Bromoform 75-25-	2	53	50	6	3	2	68 67 68 68				35	33
Trichloroacetic acid	76-03-9	55	48	6	15	6	62 57 62 62				30	32
Selenious acid	7783-00-8	101	80	6	27	8	110	95	110 110		61	49
1,1,2-Trichloroethane 79-00-	5	39	36	6	2	2	51 49 51 51				31	20
Toxaphene 8001-35	-2	24	22	6	2	1	24 24 24 24				20	4
Fluorene 86-73-	7	17	17	6			19 19 19 19				13	6
beta-Chloronaphthalene 91-58-	7	22	19	6	5	2	24 23 24 24				14	10
Benzidine 92-87-	5	22	18	6			23 22 23 23				18	5
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2	109 107 109 109				91	18
2-Chlorophenol 95-57-	8	34	33	6			36 34 36 36				27	9
Benzyl chloride	100-44-7	6	6	5			7 6 7 7				4	3
Thallium nitrate	10102-45-1	22	22	5	1	1	27 25 27 27				9	18
Resmethrin 10453-86	-8	84	58	5	28	4	86 84 86 86				68	18
Propargyl alcohol	107-19-7	17	16	5	6	3	17 17 17 17				14	3
2,4,6-Trinitrotoluene 118-96	-7	36	29	5			51 46 51 51				35	16
N,N-Dimethylaniline 121-69	-7	65	44	5	30	4	68 55 68 68				36	32
Malathion 121-75	-5	74	33	5	40	2	80 70 80 80				59	21
Dibromochloromethane 124-48	-1	38	35	5	3	2	48 48 48 48				30	18
Arochlor 1016	12674-11-2	37	33	5	1	1	41 41 41 41				14	27
Sodium cyanide	143-33-9	88	42	5	53	5	90 57 90 90				63	27

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Trifluralin 1582-09	-8	25	23	5			27 26 27 27				19	8
Alachlor 15972-60	-8	19	19	5			19 19 19 19				15	4
Prometon 1610-18	-0	26	20	5	5	1 28 25 28 28					19	9
Dacthal 1861-32	-1	20	15	5			20 19 20 20				14	6
Atrazine 1912-24	-9	34	32	5			37 37 37 37				27 10	
Benzo[g,h,i]perylene 191-24	-2	14	14	5			19 19 19 19				11	8
Dicamba 1918-00	-9	50	45	5	1	1 58 57 58 58					44 14	
Propachlor 1918-16	-7	13	11	5			14 13 14 14				7	7
Hydrazine/hydrazine sulfate	302-01-2	66	40	5	40 10 69 51 69 69						53 16	
Tebuthiuron 34014-18	-1	16	11	5	8	2 17 12 17 17					5 12	
Chlorobenzilate 510-15	-6	12	10	5			12 11 12 12				6	6
Mercuric chloride	7487-94-7	43	30	5	22	7 50 44 50 50					31 19	
Bromodichloromethane 75-27-	4	41	38	5	2	1 50 50 50 50					31 19	
1,1-Dichloroethane 75-34-	3	33	30	5			45 44 45 45				23 22	
Cacodylic acid	75-60-5	9	9	5			11 11 11 11				6	5
1,2-Dichloropropane 78-87-	5	40	37	5			51 50 51 51				32 19	
Pentachloronitrobenzene 82-68-	8	12	12	5			12 12 12 12				12	
Ametryn 834-12	-8	6	6	5			6 6 6 6				2 4	
N-Nitrosodiphenylamine 86-30-	6	27	26	5	11	1 29 29 29 29					23	6
2,4,5-Trichlorophenol 95-95-	4	18	17	5			21 20 21 21				14	7
1,2-Dibromo-3-chloropropane 96-12-	8	23	22	5	1	1 30 30 30 30					20 10	
Acetophenone 98-86-	2	11	11	5			14 14 14 14				7	7
Nitrobenzene 98-95-	3	36	30	5	6	1 37 36 37 37					28	9
Azobenzene 103-33	-3	16	15	4			17 17 17 17				10	7
Quinone 106-51	-4	10	10	4	3	3 11 11 11 11					5	6
Glyphosate 1071-83	-6	31	23	4	14	2 33 27 33 32					25	8
Bis(2-chloroisopropyl) ether	108-60-1	14	13	4			14 14 14 14				11	3
Bis(chloroethyl)ether 111-44	-4	18	17	4			20 19 20 20				12	8
Bis(2-chloroethoxy)methane 111-91	-1	13	12	4			14 14 14 14				10	4
Simazine 122-34	-9	43	34	4			46 38 46 46				32 14	
Thallic oxide	1314-32-5	5	5	4			6 6 6 6				3 3	

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Captan 133-06	-2	9	9	4	3	3 10 10 10 10					8	2
Triethylene glycol monobutyl ether	143-22-6	48	30	4	22	1 60 45 60 60					17 43	
cis-1,2-Dichloroethylene 156-59	-2	18	17	4	1	1 27 27 27 27					14 13	
Benefin 1861-40	-1	15	13	4			16 16 16 16				15	1
Vernam 1929-77	-7	7	7	4			7 7 7 7				5 2	
Metribuzin 21087-64	-9	15	15	4			16 16 16 16				11	5
Pronamide 23950-58	-5	8	8	4			8 8 8 8				7 1	
Disulfoton 298-04	-4	25	25	4			25 25 25 25				21	4
Acephate 30560-19	-1	25	23	4	5	2 30 27 30 30					20 10	
Pentabromodiphenyl ether	32534-81-9	12	9	4	5	3 14 12 14 14					6	8
Pendimethalin 40487-42	-1	27	27	4			32 32 32 32				15 17	
Bayleton 43121-43	-3	13	12	4			15 15 15 15				10	5
Metolachlor 51218-45	-2	9	9	4			9 9 9 9				5 4	
Pydrin 51630-58	-1	14	13	4			14 14 14 14				14	
Parathion 56-38-	2	8	7	4			8 8 8 8				7 1	
Dimethoate 60-51-	5	11	10	4			11 11 11 11				10	1
2,6-Dinitrotoluene 606-20	-2	19	18	4			20 20 20 20				13	7
Pentachlorobenzene 608-93	-5	4	4	4	1 1 4 4 4 4						3 1	
N-Nitroso-di-N-propylamine 621-64	-7	22	21	4			23 23 23 23				16	7
Dichlorvos 62-73-	7	48	31	4	15	3 49 42 49 49					37 12	
N-Nitrosodimethylamine 62-75-	9	15	14	4			16 16 16 16				11	5
1,1,1,2-Tetrachloroethane 630-20	-6	13	12	4	2	2 19 19 19 19					10	9
Dalapon (sodium salt)	75-99-0	14	14	4			14 14 14 14				13	1
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4	4	4			4 4 4 4				2 2	
Phosphine 7803-51	-2	16	13	4	8	2 16		8 16 16			9	7
1,1,2,2-Tetrachloroethane 79-34-	5	32	29	4	1	1 43 42 43 43					26 17	
Diquat 85-00-	7	31	20	4	15	2 32 22 32 32					22 10	
Dinoseb 88-85-	7	13	13	4			13 13 13 13				13	
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55 55 55 55				44 11	
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17 17 17 17				16	1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16	16	4			17 17 17 17				16	1

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13 13 13 13				10	3
1,2,4,5-Tetrachlorobenzene 95-94-	3	4	4	4	1 1	4 4 4 4					3 1	
1,2,3-Trichloropropane 96-18-	4	13	12	4			20 20 20 20				11	9
Methyl acrylate	96-33-3	83	56	4	78	1 1	02	67	102 102		1 1	01
Picloram 1918-02	-1	10	10	3	2	1 1	10 10 10 10				10	
Chlorpropham 101-21	-3	7	7	3			8 8 8 8				4 4	
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10	10	3	10	4 10		5 10 10			10	
p-Chloroaniline 106-47	-8	7	6	3			8 8 8 8				5 3	
Adiponitrile 111-69	-3	4	4	3			4 4 4 4				3 1	
Aldicarb 116-06	-3	3	3	3			3 3 3 3				3	
3,3-Dimethylbenzidine 119-93	-7	13	12	3	1	1 1	14 13 14 14				11	3
Zinc phosphide	1314-84-7	18	11	3	4	1 1	19 10 19 19				11	8
Chloramben 133-90	-4	6	6	3			6 6 6 6				5 1	
Sodium diethyldithiocarbamate	148-18-5	7	7	3	2 2	7 7 7 7					4 3	
Ethyleneimine 151-56	-4	5	5	3			5 5 5 5				3 2	
Carbofuran 1563-66	-2	4	4	3			4 4 4 4				4	
Aldicarb sulfone	1646-88-4	3	3	3			3 3 3 3				3	
Oryzalin 19044-88	-3	13	9	3	5	1 1	13 13 13 13				10	3
Paraquat 1910-42	-5	8	6	3			8 8 8 8				6 2	
Oxadiazon 19666-30	-9	11	11	3			14 13 14 14				6	8
Butylate 2008-41	-5	5	5	3			5 5 5 5				3 2	
Aluminum phosphide	20859-73-8	19	5	3	16	1 1	19 17 19 19				12	7
Cyanazine 21725-46	-2	4	4	3			4 4 4 4					
Molinate 2212-67	-1	5	5	3			5 5 5 5				3 2	
Fenamiphos 22224-92	-6	6	6	3			6 6 6 6				4 2	
Oxamyl 23135-22	-0	5	5	3			5 5 5 5				5	
Methyl parathion	298-00-0	7	6	3			7 7 7 7				5 2	
Pentafluoroethane 354-33	-6	56	40	3	31	2 8	6 47 86 86				8 7	8
Iprodione 36734-19	-7	9	9	3			14 13 14 14				7	7
Tetraethyldithiopyrophosphate 3689-24	-5	4	4	3			4 4 4 4				4	
Oxyfluorfen 42874-03	-3	3	3	3			4 4 4 4				3 1	

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Cyanogen 460-19	-5	5	5	3			6 5 6 6				1 5	
Potassium silver cyanide	506-61-6	13	12	3	3	2 14 13 14 14					9	5
Hexazinone 51235-04	-2	28	16	3	8	1 29 17 29 29					20	9
Nitroguanidine 556-88	-7	5	5	3	3 3 5 5 5 5						3 2	
Ethion 563-12	-2	6	5	3			6 6 6 6				4 2	
Thallium acetate	563-68-8	4	4	3			4 4 4 4				3 1	
2,6-Dimethylphenol 576-26	-1	12	12	3	2	1 12 11 12 12					9	3
2,3,4,6-Tetrachlorophenol 58-90-	2	5	5	3			6 6 6 6				3 3	
Terbacil 5902-51	-2	3	3	3			3 3 3 3				2 1	
Fluridone 59756-60	-4	7	5	3	4 1 8 7 8 8						3 5	
Phosmet 732-11	-6	5	4	3			5 4 5 5				4 1	
Aluminum sulfamate	7773-06-0	9	8	3	1 1 9 8 9 9						9	
Dimethyl sulfate	77-78-1	4	4	3	2 1 4 4 4 4						3 1	
Arsine 7784-42	-1	11	10	3	4	1 1 1		4 1 1 1			7	4
Tetraethyl lead	78-00-2	97	42	3	56	4 99 57 99 99					89 10	
Fonofos 944-22	-9	3	3	3			3 3 3 3				2 1	
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7	7	3			7 7 7 7				7	
Diphenamid 957-51	-7	3	3	3			3 3 3 3				1 2	
1,3,5-Trinitrobenzene 99-35-	4	6	5	3	3 1 7 7 7 7						5 2	
Dodine 2439-10	-3	3	2	2			3 2 3 3				3	
Allyl chloride	107-05-1	4	4	2			4 4 4 4				3 1	
1-Chlorobutane 109-69	-3	14	14	2			14 14 14 14				4 10	
N-Nitrosodiethanolamine 1116-54	-7	4	2	2			4 2 4 2				2 2	
Endosulfan 115-29	-7	3	3	2			3 3 3 3				3	
Zineb 12122-67	-7	3	3	2	2 2 3 3 3 3						1 2	
Methacrylonitrile 126-98	-7	2	2	2			2 2 2 2				1 1	
Propazine 139-40	-2	3	3	2			3 3 3 3				1 2	
Aramite 140-57	-8	2	2	2			2 2 2 2				2	
Bidrin 141-66	-2	2	2	2			2 2 2 2				1 1	
Endothall 145-73	-3	8	8	2			8 8 8 8				6 2	
Merphos 150-50	-5	6	6	2			6 6 6 6				3 3	

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Napropamide 15299-99	-7	2	2	2			2 2 2 2				1	1
Methomyl 16752-77	-5	20	8	2	13	1 22	16 22 22				10	12
Benomyl 17804-35	-2	6	6	2			6 4 6 6				5	1
Nitrapyrin 1929-82	-4	2	2	2	1 1	2 2 2 2					2	
p,p'-Dibromodiphenyl ether	2050-47-7	2	2	2			2 2 2 2				1	1
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3	3	2			3 3 3 3				3	
Norflurazon 27314-13	-2	3	3	2			3 3 3 3				2	1
Naled 300-76	-5	17	11	2	7	2 18	14 18 16				13	5
Amitraz 33089-61	-1	3	3	2			3 3 3 3				1	2
Carbonyl sulfide	463-58-1	4	4	2			4 4 4 4				1	3
4-Aminopyridine 504-24	-5	15	15	2			16 16 16 16				14	2
Silver cyanide	506-64-9	29	12	2	12	3 29	16 29 29				24	5
Propylene glycol monoethyl ether	52125-53-8	6	6	2	2 1	6 6 6 6					4	2
Carboxin 5234-68	-4	5	5	2			5 5 5 5				2	3
Copper cyanide	544-92-3	20	12	2	5	1 20	12 20 20				17	3
Zinc cyanide	557-21-1	9	8	2	1 1	9 8 9 9					6	3
Metalaxyl 57837-19	-1	9	7	2			10 10 10 10				6	4
Calcium cyanide	592-01-8	2	2	2			2 2 2 2				2	
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4	4	2			4 4 4 4				1	3
Acifluorfen, sodium	62476-59-9	2	2	2			2 2 2 2				2	
Nonabromodiphenyl ether	63936-56-1	3	3	2			3 3 3 3				2	1
Avermectin B1	65195-55-3	4	4	2			4 4 4 4				4	
Amdro 67485-29	-4	64	32	2	35	4 77	51 77 75				32	45
Prometryn 7287-19	-6	4	4	2			4 4 4 4				2	2
Methyl chlorocarbonate	79-22-1	4	2	2	3 1	4 3 4 4					3	1
Warfarin 81-81-	2	9	6	2			9 9 9 9				9	
Bipenthrin 82657-04	-3	4	3	2	2	1 12	10 12 12					
Rotenone 83-79-	4	5	4	2	2 1	6 6 6 6					5	1
Terbutryn 886-50	-0	3	3	2			3 3 3 3				1	2
N-Nitroso-di-n-butylamine 924-16	-3	2	2	2			2 2 2 2				2	
2,4-Diaminotoluene 95-80-	7	8	8	2			8 8 8 8				6	2

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Tetrachlorovinphos 961-11	-5	8	8	2			8 8 8 8				5 3	
Benzotrichloride 98-07-	7	3	3	2			3 3 3 3				2 1	
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1			1 1 1 1				1	
1,4-Dibromobenzene 106-37	-6	2	2	1			2 2 2 2				1 1	
Allyl alcohol	107-18-6	1	1	1			1 1 1 1				1	
Furan 110-00	-9	1	1	1			1 1 1 1				1	
Dimethyl terephthalate (DMT)	120-61-6	2	2	1			2 2 2 2				2	
1,2-Diphenylhydrazine 122-66	-7	1	1	1			1 1 1 1				1	
Maleic hydrazide	123-33-1	1	1	1			1 1 1 1					
Maneb 12427-38	-2	6	6	1			6 6 6 6				6	
Chlordane (technical)	12789-03-6	1	1	1			1 1 1 1				1	
Nitrate 14797-55	-8	1	1	1			2 2 2 2					
Bromoxynil octanoate	1689-99-2	3	3	1			3 3 3 3				3	
Fluometuron 2164-17	-2	1	1	1			1 1 1 1				1	
Triallate 2303-17	-5	1	1	1			1 1 1 1				1	
Thiobencarb 28249-77	-6	1	1	1			1 1 1 1				1	
Octabromodiphenyl ether	32536-52-0	2	2	1			2 2 2 2				2	
Linuron 330-55	-2	1	1	1			1 1 1 1				1	
Isopropalin 33820-53	-0	1	1	1			1 1 1 1				1	
Vinclozolin 50471-44	-8	2	2	1			4 4 4 4				2 2	
t-Butyl chloride	507-20-0	1	1	1			1 1 1 1					
Cypermethrin 52315-07	-8	21	12	1	13	2 26 16 26 26					9 17	
Barium cyanide	542-62-1	6	1	1	6 1	6 3 6 6					6	
N-Nitrosodiethylamine 55-18-	5	1	1	1			1 1 1 1				1	
Strychnine 57-24-	9	7	6	1			7 7 7 7				7	
1,2,4-Tribromobenzene 615-54	-3	2	2	1			2 2 2 2				2	
Sodium fluoroacetate	62-74-8	1	1	1			2 2 2 2				1 1	
Diethyl sulfate	64-67-5	1	1	1			1 1 1 1					
Chlorsulfuron 64902-72	-3	1	1	1	1 1	2 2 2 2					1 1	
Thallium carbonate	6533-73-9	1	1	1			1 1 1 1				1	
Flutolanil 66332-96	-5	1	1	1			2 2 2 2					

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Tralomethrin 66841-25	-6	3	3	1	1 1 6 6 6 6							
Baythroid 68359-37	-5	32	12	1	20	2 50 38 50 50					11 39	
Fluvalinate 69409-94	-5	2	2	1			2 2 2 2				2	
Sethoxydim 74051-80	-2	2	1	1			3 3 3 3				1 2	
Ally 74223-64	-6	4	3	1	2 1 6 6 6 6						3 3	
Thallium (I) sulfate	7446-18-6	1	1	1			1 1 1 1				1	
Selenium sulfide	7446-34-6	27	27	1			27 27 27 27				27	
Bromotrichloromethane 75-62-	7	1	1	1			1 1 1 1					
Paclobutrazol 76738-62	-0	7	7	1			7 6 7 7				6 1	
Thallium chloride	7791-12-0	1	1	1			1 1 1 1				1	
Merphos oxide	78-48-8	1	1	1			2 2 2 2				1 1	
Isoxaben 82558-50	-7	2	2	1			4 3 4 4				2 2	
N-Nitrosopyrrolidine 930-55	-2	1	1	1			1 1 1 1				1	
3,4-Dimethylphenol 95-65-	8	3	2	1	3 1 3 1 3 3							
Captafol 2425-06	-1											
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Express	101200-48-0											
Methamidophos	10265-92-6											
Monchloramine	10599-90-3											
Chloromethyl methyl ether	107-30-2											
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
2,4-Dichlorophenol	120-83-2											
Propham 122-42	-9											
p-Chlorophenyl methyl sulfide	123-09-1											
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Nickel carbonyl	13463-39-3											
Quinalphos	13593-03-8											
Phenmedipham	13684-63-4											
Diisopropyl methylphosphonate	1445-75-6											
Nitrite 14797-65	-0											

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Alar	1596-84-5											
Ethephon	16672-87-0											
Bromoxynil	1689-84-5											
Isopropyl methyl phosphonic acid	1832-54-8											
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Phosolone 2310-17	-0											
Propargite	2312-35-8											
Thiophanate-methyl	23564-05-8											
Mirex 2385-85	-5											
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene	25329-35-5											
Pirimiphos-methyl	29232-93-7											
Asulam 3337-71	-1											
Diazomethane	334-88-3											
Acetochlor	34256-82-1											
Diflubenzuron	35367-38-5											
Imazalil	35554-44-0											
Hexabromodiphenyl ether	36483-60-0											
Fosetyl-al	39148-24-8											
Danitol	39515-41-8											
Tetrabromodiphenyl ether	40088-47-9											
Difenzoquat	43222-48-6											
Tribromodiphenyl ether	49690-94-0											
Formaldehyde	50-00-0											
Chlorine cyanide	506-77-4											
o-Dinitrobenzene	528-29-0											
Bis(chloromethyl) ether	542-88-1											
Carbosulfan	55285-14-8											
Dimethipin	55290-64-7											
beta-Propiolactone	57-57-8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Tridiphan	58138-08-2											
Vinyl bromide	593-60-2											
Dibromodichloromethane	594-18-3											
1,1,2-Trichloropropane	598-77-6											
Propiconazole 60207-90	-1	0					4 3 4 4					
Furmecyclox	60568-05-0											
Methyl isocyanate	624-83-9											
Selenourea	630-10-4											
Cyromazine	66215-27-8											
Prochloraz	67747-09-5											
Cyhalothrin/karate 68085-85	-8											
Haloxypop-methyl	69806-40-2											
Propanil 709-98	-8											
Fomasafen	72178-02-0											
Apollo	74115-24-5											
Radium 226,228	7440-14-4											
Propyleneimine	75-55-8											
Glycidaldehyde	765-34-4											
Assure 76578-14	-8											
Glufosinate-ammonium 77182-82	-2											
Trichlorocyclopentadiene	77323-84-3											
Lactofen	77501-63-4											
Fluorine, soluble fluoride	7782-41-4											
Savey	78587-05-0											
Harmony	79277-27-3											
Demeton	8065-48-3											
Imazaquin	81335-37-7	0					2 2 2 2					
Pursuit	81335-77-5											
Triasulfuron	82097-50-5											
Londax	83055-99-6											
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											

TABLE A-3c. Unique First Four Digits of HMIRS Stock Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique First Four Digits of HMIRS Stock Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Phthalic anhydride	85-44-9											
Nustar	85509-19-9											
Hexachlorobutadiene	87-68-3											
Hexabromobenzene	87-82-1											
Systhane	88671-89-0	0					1 1 1 1					
ortho-Anisidine	90-04-0											
Chlorimuron-ethyl	90982-32-4											
p-Chlorophenyl methyl sulfoxide	934-73-6											
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
Methidathion	950-37-8											
p-Chlorophenyl methyl sulfone	98-57-7											

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylbenzene 100-41	-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
n-Butanol 71-36-	3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Nickel 7440-02	-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
Methanol 67-56-	1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Manganese 7439-96	-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Copper 7440-50	-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31	2791	2673	2791	2791	2774	17
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Antimony 7440-36	-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
Dichloromethane 75-09-	2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Cyclohexanone 108-94	-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Cumene 98-82-	8	1481	778	17	1129	49	1632	1041	1632	1631	386	1246
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	1588	974	1588	1584	942	646
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
n-Heptane 142-82	-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Cadmium 7440-43	-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
Silver 7440-22	-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
1,1,1-Trichloroethane 71-55-	6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Naphthalene 91-20-	3	1419	718	27	879	77	1635	928	1635	1626	860	775
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808	503
Hydroquinone 123-31	-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
Molybdenum 7439-98	-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
d-Limonene 5989-27	-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
Antimony trioxide	1309-64-4	844	461	34	511	49	906 708 906	904			433	473
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5	742 342 742	731			533	209
Dichlorodifluoromethane 75-71-	8	936	655	38	391	89	953 758 953	953			854	99
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
1,1,1,2-Tetrafluoroethane 811-97	-2	598	353	24	347	52	775 575 775	775			132	643
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
2-Methoxyethanol 109-86	-4	511	273	22	321	43	559 357 559	558			332	227
Triethylamine 121-44	-8	436	404	13	299	11	459 243 459	459			190	269
Chlorodifluoromethane 75-45-	6	714	514	34	292	60	774 587 774	771			488	286
Ammonia 7664-41	-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
Methylene Diphenyl Diisocyanate (monomeric MDI) 101-68	-8	874	710	39	258	47	1062	941	1062	1054	493	569
Tetrachloroethylene 127-18	-4	853	646	33	251	45	929 796 929	929			624	305
Styrene 100-42	-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742
2-Ethoxyethanol 110-80	-5	655	475	21	221	47	688 547 688	685			534	154
Asbestos 1332-21	-4	470	421	28	212	47	475 365 475	474			417	58
1,4-Dioxane 123-91	-1	571	469	28	202	63	623 520 623	623			408	215
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
Bisphenol A	80-05-7	405	313	14	191	26	482 405 482	481			166	316
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600 506 600	596			253	347
Trichloroethylene 79-01-	6	486	369	30	178	45	568 476 568	568			294	274
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Ethylene diamine	107-15-3	342	235	17	166	36	377 320 377	375			170	207
Epichlorohydrin 106-89	-8	507	445	16	148	26	559 496 559	558			299	260
Trichlorofluoromethane 75-69-	4	521	427	31	136	48	535 485 535	534			459	76
Ammonium acetate	631-61-8	360	206	9	125	12	368 334 368	367			204	164
1,2-Epoxybutane 106-88	-7	268	203	18	124	26	300 256 300	300			171	129
Tricresol 1319-77	-3	268	175	22	124	19	272 217 272	272			207	65
N,N-Dimethylformamide 68-12-	2	283	228	19	120	21	363 297 363	363			196	167
Chlorine 7782-50	-5	220	162	18	115	22	241 140 241	241			132	109

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Vinyl acetate	108-05-4	740	688	21	114	26 953 897 953 952					480	473
Acrylic acid	79-10-7	199	134	17	99	14 234 191 234 234					99	135
1,2-Dichloroethane 107-06	-2	396	165	16	96	11 440 185 440 219					318	122
Formic acid	64-18-6	250	188	14	86	20 271 231 271 271					171	100
Sodium azide	26628-22-8	776	667	16	83	44 1100	1043	1100	1096		328	772
Methyl acrylate	96-33-3	83	56	4	78	1 102	67	102 102			1	101
Beryllium and compounds	7440-41-7	340	296	31	74	24 379 340 379 378					220	159
Carbon tetrachloride	56-23-5	270	240	14	73	18 292 253 292 291					203	89
Diphenylamine	122-39-4	100 89 14			68	26 123 110 123 123					54	69
1,2-Dichlorobenzene 95-50-	1	225	176	17	68	19 249 211 249 249					162	87
Potassium cyanide	151-50-8	152	105	9	62	14 161 128 161 161					115	46
Chlorobenzene 108-90	-7	193	155	17	60	19 213 188 213 213					134	79
Tetraethyl lead	78-00-2	97	42	3	56	4 99 57 99 99					89	10
trans-1,2-Dichloroethylene 156-60	-5	100	77	9	54	5 136 108 136 136					29	107
Propylene oxide	75-56-9	205	191	12	54	23 246 224 246 246					137	109
1,4-Dichlorobenzene 106-46	-7	223	183	16	53	11 246 219 246 245					171	75
Thiram	137-26-8	90 84 12			53	6 93 71 93 93					57	36
Sodium cyanide	143-33-9	88	42	5	53	5 90 57 90 90					63	27
Vanadium pentoxide	1314-62-1	569	560	26	52	9 587 565 587 587					340	247
Acetaldehyde 75-07-	0	183	169	15	51	26 323 280 323 323					49	274
1,1-Biphenyl	92-52-4	97 82 15			48	14 98 75 98 98					55	43
Phenylmercuric acetate	62-38-4	239	230	13	42	6 240 200 240 240					222	18
Selenium and compounds	7782-49-2	253	234	31	41	23 296 267 296 296					170	126
m-Phenylenediamine 108-45	-2	83	68	8	40	7 89 69 89 89					49	40
Cyclohexylamine 108-91	-8	145	111	7	40	5 154 129 154 154					114	40
Malathion 121-75	-5	74	33	5	40	2 80 70 80 80					59	21
Hydrazine/hydrazine sulfate	302-01-2	66	40	5	40	10 69 51 69 69					53	16
Benzaldehyde 100-52	-7	93	78	8	39	4 101	71	101	94		60	41
Permethrin 52645-53	-1	83	51	8	39	7 103	87	103 103			32	71
Acrylonitrile 107-13	-1	239	230	18	37	12 265 246 265 265					131	134
Chromium (VI)	18540-29-9	139	136	13	37	11 147 133 147 147					116	31

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Uranium, natural	7440-61-1	58	47	7	37	10 59 51 59 59					49	10
Aniline 62-53-3		131	113	14	35	18 140 121 140 140					95	45
Amdro 67485-29	-4	64	32	2	35	4 77 51 77 75					32	45
Diuron 330-54	-1	65	39	9	34	8 72 54 72 71					39	33
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83 80 12			32	15 102		86 102 102			57	45
Pentafluoroethane 354-33	-6	56	40	3	31	2 86 47 86 86					8	78
N,N-Dimethylaniline 121-69	-7	65	44	5	30	4 68 55 68 68					36	32
Resmethrin 10453-86	-8	84	58	5	28	4 86 84 86 86					68	18
Decabromodiphenyl ether (DBDPE)	1163-19-5	51 32 11			27	5 56 46 56 56					21	35
Selenious acid	7783-00-8	101	80	6	27	8 110		95 110 110			61	49
Triethylene glycol monobutyl ether	143-22-6	48	30	4	22	1 60 45 60 60					17	43
Mercuric chloride	7487-94-7	43	30	5	22	7 50 44 50 50					31	19
2-Methylphenol	95-48-7	95 88 12			22	8 103		95 103 103			62	41
Pyridine 110-86	-1	76	58	6	20	7 83 68 83 83					58	25
Baythroid 68359-37	-5	32	12	1	20	2 50 38 50 50					11	39
Ethylene thiourea	96-45-7	57	54	8	20	8 65 58 65 65					49	16
Carbaryl 63-25-	2	89	69	6	19	2 93 84 93 93					73	20
di(2-ethylhexyl)Adipate	103-23-1	46 42 16			18	5 50 41 50 50					30	20
Aluminum phosphide	20859-73-8	19 5 3			16	1 19 17 19 19					12	7
Coke oven emissions	8007-45-2	74	61	9	16	7 77 68 77 77					70	7
Dichlorvos 62-73-	7	48	31	4	15	3 49 42 49 49					37	12
Trichloroacetic acid	76-03-9	55	48	6	15	6 62 57 62 62					30	32
Diquat 85-00-	7	31	20	4	15	2 32 22 32 32					22	10
Glyphosate 1071-83	-6	31	23	4	14	2 33 27 33 32					25	8
Diethyl phthalate	84-66-2	51 45 16			14	10 56 53 56 56					34	22
Methomyl	16752-77-5	20 8 2			13	1 22 16 22 22					10	12
Cypermethrin 52315-07	-8	21	12	1	13	2 26 16 26 26					9	17
Isophorone 78-59-	1	200	167	13	13	7 237 212 237 237					170	67
2-Nitropropane 79-46-	9	43	38	7	13	7 43 40 43 43					35	8
o-Chlorotoluene	95-49-8	72 68 11			13	6 94 90 94 94					56	38
Baygon 114-26	-1	99	83	7	12	5 106		98 106 106			84	22

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Silver cyanide	506-64-9	29	12	2	12	3 29 16 29 29					24	5
Benzo(a)anthracene 56-55-	3	31	27	9	12	3 33 32 33 33					14	19
Hexachlorophene 70-30-	4	24	19	6	12	5 24 13 24 24					23	1
Creosote 8001-58	-9	31	22	9	12	5 32 22 32 32					25	7
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7 118 116 118 118					107	11
gamma-Hexachlorocyclohexane	58-89-9	82 73 12			11	4 82 77 82 82					73	9
N-Nitrosodiphenylamine 86-30-	6	27	26	5	11	1 29 29 29 29					23	6
Pentachlorophenol	87-86-5	108 96 13			11	4 110		99 110 110			86	24
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10	10	3	10	4 10		5 10 10			10	
3-Methylphenol 108-39	-4	40	39	8	9	6 43 40 43 43					31	12
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	27	25	6	9	4 46 42 46 46					18	28
Cyanide, free	57-12-5	46	42	7	9	6 48 47 48 48					37	11
Folpet 133-07	-3	64	60	6	8	6 68 65 68 68					31	37
Fluoranthene 206-44	-0	30	30	6	8	2 32 31 32 32					26	6
Tebuthiuron 34014-18	-1	16	11	5	8	2 17 12 17 17					5	12
Hexazinone 51235-04	-2	28	16	3	8	1 29 17 29 29					20	9
Phosphine 7803-51	-2	16	13	4	8	2 16		8 16 16			9	7
4-Methylphenol 106-44	-5	36	34	9	7	5 39 36 39 39					26	13
Dimethylamine 124-40	-3	33	30	7	7	3 38 34 38 38					24	14
Indeno[1,2,3-cd]pyrene 193-39	-5	21	21	6	7	1 23 23 23 23					11	12
Benzo(b)fluoranthene 205-99	-2	23	23	6	7	1 25 25 25 25					13	12
Benzo(k)fluoranthene 207-08	-9	22	22	7	7	1 24 24 24 24					11	13
Chrysene 218-01	-9	32	31	7	7	1 34 34 34 34					21	13
Naled 300-76	-5	17	11	2	7	2 18 14 18 16					13	5
Benzo [a] pyrene	50-32-8	38	36	7	7	1 41 41 41 41					22	19
Dibenzo(a,h)anthracene 53-70-	3	21	21	6	7	1 23 23 23 23					11	12
p-Nitrophenol 100-02	-7	54	48	8	6	2 55 49 55 55					42	13
Propargyl alcohol	107-19-7	17	16	5	6	3 17 17 17 17					14	3
Barium cyanide	542-62-1	6 1 1			6	1 6 3 6 6					6	
Tributyltin oxide	56-35-9	98 91 10			6	6 106		98 106 106			64	42
Ethyl chloride	75-00-3	54	49	9	6	4 64 60 64 64					43	21

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Carbon disulfide	75-15-0	37	29	6	6	1 40 32 40 40					24	16
Acrylamide 79-06-	1	83	80	8	6	4 303 297 303 303					39	264
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2 109 107 109 109					91	18
Nitrobenzene 98-95-	3	36	30	5	6	1 37 36 37 37					28	9
Caprolactam 105-60	-2	23	23	8	5	3 23 22 23 23					7	16
Hexachlorobenzene 118-74	-1	85	79	9	5	1 88 83 88 88					66	22
Anthracene 120-12	-7	36	32	9	5	2 38 37 38 38					22	16
Prometon 1610-18	-0	26	20	5	5	1 28 25 28 28					19	9
Oryzalin	19044-88-3	13 9 3			5	1 13 13 13 13					10	3
Acephate 30560-19	-1	25	23	4	5	2 30 27 30 30					20	10
Pentabromodiphenyl ether	32534-81-9	12 9 4			5	3 14 12 14 14					6	8
2,4-Dinitrophenol 51-28-	5	30	28	9	5	4 34 30 34 34					18	16
Copper cyanide	544-92-3	20	12	2	5	1 20 12 20 20					17	3
Bromochloromethane	74-97-5	47 40 10			5	5 55 50 55 55					33	22
Phenanthrene 85-01-	8	34	32	9	5	1 36 32 36 36					21	15
beta-Chloronaphthalene 91-58-	7	22	19	6	5	2 24 23 24 24					14	10
2,4-Dimethylphenol 105-67	-9	24	23	7	4	3 26 23 26 26					16	10
Maleic anhydride	108-31-6	21	21	6	4	3 21 18 21 21					18	3
Zinc phosphide	1314-84-7	18	11	3	4	1 19 10 19 19					11	8
Fluridone	59756-60-4	7 5 3			4	1 8 7 8 8					3	5
Arsine 7784-42	-1	11	10	3	4	1 11		4 11 11			7	4
Quinone 106-51	-4	10	10	4	3	3 11 11 11 11					5	6
Arochlor 1254	11097-69-1	66	55	9	3	2 70 67 70 70					35	35
1,2,4-Trichlorobenzene 120-82	-1	48	46	7	3	3 56 56 56 56					35	21
Dibromochloromethane 124-48	-1	38	35	5	3	2 48 48 48 48					30	18
Captan	133-06-2	9 9 4			3	3 10 10 10 10					8	2
Chlorothalonil 1897-45	-6	174	162	8	3	1 205 174 205 205					114	91
Chlorpyrifos 2921-88	-2	153	102	7	3	3 166 144 166 166					110	56
Potassium silver cyanide	506-61-6	13	12	3	3	2 14 13 14 14					9	5
1,3-Dichlorobenzene 541-73	-1	52	49	6	3	3 62 61 62 62					38	24
Nitroguanidine	556-88-7	5 5 3			3	3 5 5 5 5					3	2

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

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Bromomethane 74-83-	9	53	46	7	3	2 63 61 63 63					45	18
Bromoform 75-25-	2	53	50	6	3	2 68 67 68 68					35	33
Methyl chlorocarbonate	79-22-1	4 2 2			3	1 4 3 4 4					3	1
3,4-Dimethylphenol	95-65-8	3 2 1			3	1 3 1 3 3						
1,3,5-Trinitrobenzene	99-35-4	6 5 3			3	1 7 7 7 7					5	2
Picloram 1918-02	-1	10	10	3	2	1 10 10 10 10					10	
Nitric Oxide	10102-43-9	27	26	9	2	2 43 34 43 43					10	33
2,4-Dinitrotoluene 121-14	-2	39	38	6	2	1 43 41 43 43					27	16
Zineb	12122-67-7	3 3 2			2	2 3 3 3 3					1	2
Sodium diethyldithiocarbamate	148-18-5	7 7 3			2	2 7 7 7 7					4	3
Ethyl carbamate	51-79-6	12	12	6	2	2 12 12 12 12					7	5
Propylene glycol monoethyl ether	52125-53-8	6	6	2	2	1 6 6 6 6					4	2
2,6-Dimethylphenol 576-26	-1	12	12	3	2	1 12 11 12 12					9	3
1,1,1,2-Tetrachloroethane 630-20	-6	13	12	4	2	2 19 19 19 19					10	9
Ally	74223-64-6	4 3 1			2	1 6 6 6 6					3	3
Hydrogen cyanide	74-90-8	29 29 12			2	2 32 31 32 32					20	12
Bromodichloromethane 75-27-	4	41	38	5	2	1 50 50 50 50					31	19
Dimethyl sulfate	77-78-1	4 4 3			2	1 4 4 4 4					3	1
1,1,2-Trichloroethane 79-00-	5	39	36	6	2	2 51 49 51 51					31	20
Toxaphene 8001-35	-2	24	22	6	2	1 24 24 24 24					20	4
Biphenrin	82657-04-3	4 3 2			2	1 12 10 12 12						
Rotenone	83-79-4	5 4 2			2	1 6 6 6 6					5	1
Thallium nitrate	10102-45-1	22	22	5	1	1 27 25 27 27					9	18
3,3-Dimethylbenzidine 119-93	-7	13	12	3	1	1 14 13 14 14					11	3
Arochlor 1016	12674-11-2	37	33	5	1	1 41 41 41 41					14	27
cis-1,2-Dichloroethylene 156-59	-2	18	17	4	1	1 27 27 27 27					14	13
Dicamba 1918-00	-9	50	45	5	1	1 58 57 58 58					44	14
Nitrapyrin	1929-82-4	2 2 2			1	1 2 2 2 2					2	
2-Chloroacetophenone 532-27	-4	10	10	6	1	1 10 10 10 10					9	1
Zinc cyanide	557-21-1	9 8 2			1	1 9 8 9 9					6	3
Pentachlorobenzene	608-93-5	4 4 4			1	1 4 4 4 4					3	1

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
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Chlorsulfuron	64902-72-3	1 1 1			1	1 2 2 2 2					1	1
Tralomethrin	66841-25-6	3 3 1			1	1 6 6 6 6						
Hexachloroethane 67-72-	1	38	36	7	1	1 39 36 39 39					31	8
Methoxychlor 72-43-	5	62	62	7	1	1 63 63 63 63					58	5
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	35	34	7	1	1 37 37 37 37					25	12
Aluminum sulfamate	7773-06-0	9 8 3			1	1 9 8 9 9					9	
1,1,2,2-Tetrachloroethane 79-34-	5	32	29	4	1	1 43 42 43 43					26	17
2,4,6-Trichlorophenol 88-06-	2	34	33	7	1	1 35 33 35 35					21	14
1,2,4,5-Tetrachlorobenzene	95-94-3	4 4 4			1	1 4 4 4 4					3	1
1,2-Dibromo-3-chloropropane 96-12-	8	23	22	5	1	1 30 30 30 30					20	10
Captafol 2425-06	-1											
Dodine	2439-10-3	3 2 2					3 2 3 3				3	
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Benzyl chloride	100-44-7	6 6 5					7 6 7 7				4	3
Express	101200-48-0											
Chlorpropham	101-21-3	7 7 3					8 8 8 8				4	4
Heptachlor epoxide	1024-57-3	45 44		6			45 45 45 45				38	7
Methamidophos	10265-92-6											
Azobenzene 103-33	-3	16	15	4			17 17 17 17				10	7
N-Nitroso-N-methylethylamine	10595-95-6	1 1 1					1 1 1 1				1	
Monchloramine	10599-90-3											
1,4-Dibromobenzene	106-37-6	2 2 1					2 2 2 2				1	1
p-Chloroaniline	106-47-8	7 6 3					8 8 8 8				5	3
Allyl chloride	107-05-1	4 4 2					4 4 4 4				3	1
Allyl alcohol	107-18-6	1 1 1					1 1 1 1				1	
Chloromethyl methyl ether	107-30-2											
Bis(2-chloroisopropyl) ether	108-60-1	14 13		4			14 14 14 14				11	3
1-Chlorobutane 109-69	-3	14	14	2			14 14 14 14				4	10
Furan	110-00-9	1 1 1					1 1 1 1				1	
Bis(chloroethyl)ether 111-44	-4	18	17	4			20 19 20 20				12	8
N-Nitrosodiethanolamine	1116-54-7	4 2 2					4 2 4 2				2	2

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Adiponitrile	111-69-3	4 4 3					4 4 4 4				3	1
Bis(2-chloroethoxy)methane 111-91	-1	13	12	4			14 14 14 14				10	4
Endosulfan	115-29-7	3 3 2					3 3 3 3				3	
Aldicarb	116-06-3	3 3 3					3 3 3 3				3	
2,4,6-Trinitrotoluene	118-96-7	36 29		5			51 46 51 51				35	16
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
Dimethyl terephthalate (DMT)	120-61-6	2 2 1					2 2 2 2				2	
2,4-Dichlorophenol	120-83-2											
Simazine	122-34-9	43 34		4			46 38 46 46				32	14
Propham	122-42-9											
1,2-Diphenylhydrazine	122-66-7	1 1 1					1 1 1 1				1	
p-Chlorophenyl methyl sulfide	123-09-1											
Maleic hydrazide	123-33-1	1 1 1					1 1 1 1					
Maneb	12427-38-2	6 6 1					6 6 6 6				6	
Methacrylonitrile	126-98-7	2 2 2					2 2 2 2				1	1
Chlordane (technical)	12789-03-6	1 1 1					1 1 1 1				1	
Pyrene	129-00-0	28 28		7			30 30 30 30				22	8
Thallic oxide	1314-32-5	5 5 4					6 6 6 6				3	3
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Dibenzofuran 132-64	-9	15	14	8			17 17 17 17				6	11
Chloramben	133-90-4	6 6 3					6 6 6 6				5	1
Nickel carbonyl	13463-39-3											
Quinalphos	13593-03-8											
Phenmedipham	13684-63-4											
Propazine	139-40-2	3 3 2					3 3 3 3				1	2
Aramite	140-57-8	2 2 2					2 2 2 2				2	
Bidrin	141-66-2	2 2 2					2 2 2 2				1	1
Diisopropyl methylphosphonate	1445-75-6											
Endothall	145-73-3	8 8 2					8 8 8 8				6	2
Nitrate	14797-55-8	1 1 1					2 2 2 2					

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Nitrite 14797-65	-0											
Merphos	150-50-5	6 6 2					6 6 6 6				3	3
Ethyleneimine	151-56-4	5 5 3					5 5 5 5				3	2
Napropamide	15299-99-7	2 2 2					2 2 2 2				1	1
Carbofuran	1563-66-2	4 4 3					4 4 4 4				4	
Trifluralin 1582-09	-8	25	23	5			27 26 27 27				19	8
Alar	1596-84-5											
Alachlor	15972-60-8	19 19		5			19 19 19 19				15	4
Aldicarb sulfone	1646-88-4	3 3 3					3 3 3 3				3	
Ethephon 16672-87	-0											
Bromoxynil	1689-84-5											
Bromoxynil octanoate	1689-99-2	3 3 1					3 3 3 3				3	
Benomyl	17804-35-2	6 6 2					6 4 6 6				5	1
Isopropyl methyl phosphonic acid	1832-54-8											
Dacthal	1861-32-1	20 15		5			20 19 20 20				14	6
Benefin	1861-40-1	15 13		4			16 16 16 16				15	1
Paraquat	1910-42-5	8 6 3					8 8 8 8				6	2
Atrazine	1912-24-9	34 32		5			37 37 37 37				27	10
Benzo[g,h,i]perylene 191-24	-2	14	14	5			19 19 19 19				11	8
Propachlor 1918-16	-7	13	11	5			14 13 14 14				7	7
Vernam	1929-77-7	7 7 4					7 7 7 7				5	2
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Oxadiazon	19666-30-9	11 11		3			14 13 14 14				6	8
Butylate	2008-41-5	5 5 3					5 5 5 5				3	2
p,p'-Dibromodiphenyl ether	2050-47-7	2 2 2					2 2 2 2				1	1
Acenaphthylene 208-96	-8	18	18	6			20 20 20 20				15	5
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3 3 2					3 3 3 3				3	
Metribuzin 21087-64	-9	15	15	4			16 16 16 16				11	5
Fluometuron	2164-17-2	1 1 1					1 1 1 1				1	
Cyanazine	21725-46-2	4 4 3					4 4 4 4					
Molinate	2212-67-1	5 5 3					5 5 5 5				3	2

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Fenamiphos	22224-92-6	6 6 3					6 6 6				4	2
Triallate	2303-17-5	1 1 1					1 1 1				1	
Phosolone	2310-17-0											
Propargite	2312-35-8											
Oxamyl	23135-22-0	5 5 3					5 5 5				5	
Thiophanate-methyl	23564-05-8											
Mirex	2385-85-5											
Pronamide	23950-58-5	8 8 4					8 8 8				7	1
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene	25329-35-5											
Norflurazon	27314-13-2	3 3 2					3 3 3				2	1
Thiobencarb	28249-77-6	1 1 1					1 1 1				1	
Pirimiphos-methyl	29232-93-7											
Methyl parathion	298-00-0	7 6 3					7 7 7				5	2
Disulfoton 298-04	-4	25	25	4			25 25 25 25				21	4
Aldrin 309-00	-2	44	43	7			44 43 44 44				34	10
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31 30		6			31 31 31 31				25	6
beta-Hexachlorocyclohexane 319-85	-7	29	28	6			29 29 29 29				23	6
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30	29	6			30 30 30 30				24	6
Octabromodiphenyl ether	32536-52-0	2 2 1					2 2 2 2				2	
Linuron	330-55-2	1 1 1					1 1 1 1				1	
Amitraz	33089-61-1	3 3 2					3 3 3 3				1	2
Asulam	3337-71-1											
Diazomethane	334-88-3											
Isopropalin	33820-53-0	1 1 1					1 1 1 1				1	
Acetochlor 34256-82	-1											
Diflubenzuron	35367-38-5											
Imazalil	35554-44-0											
Hexabromodiphenyl ether	36483-60-0											
Iprodione	36734-19-7	9	9	3			14 13 14 14				7	7
Tetraethyldithiopyrophosphate	3689-24-5	4 4 3					4 4 4 4				4	

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Fosetyl-al	39148-24-8											
Danitol	39515-41-8											
Tetrabromodiphenyl ether	40088-47-9											
Pendimethalin	40487-42-1	27	27	4			32	32 32 32			15	17
Oxyfluorfen	42874-03-3	3	3				4	4 4 4			3	1
Bayleton	43121-43-3	13	12	4			15	15 15 15			10	5
Difenzoquat	43222-48-6											
Cyanogen	460-19-5	5	5	3			6	6 6			1	5
Carbonyl sulfide	463-58-1	4	4	2			4	4 4 4			1	3
Tribromodiphenyl ether	49690-94-0											
Formaldehyde	50-00-0											
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112	54	6			114	56	114	57	94	20
4-Aminopyridine	504-24-5	15	15	2			16	16 16 16			14	2
Vinclozolin	50471-44-8	2	2	1			4	4 4 4			2	2
Chlorine cyanide	506-77-4											
t-Butyl chloride	507-20-0	1	1	1			1	1 1 1				
Chlorobenzilate	510-15-6	12	10	5			12	11 12 12			6	6
Metolachlor	51218-45-2	9	9	4			9	9 9			5	4
Pydrin	51630-58-1	14	13	4			14	14 14 14			14	
Carboxin	5234-68-4	5	5	2			5	5 5			2	3
o-Dinitrobenzene	528-29-0											
Bis(chloromethyl) ether	542-88-1											
N-Nitrosodiethylamine	55-18-5	1	1	1			1	1 1 1			1	
Carbosulfan	55285-14-8											
Dimethipin	55290-64-7											
Ethion	563-12-2	6	5	3			6	6 6			4	2
Thallium acetate	563-68-8	4	4	3			4	4 4 4			3	1
Parathion	56-38-2	8	7	4			8	8 8 8			7	1
Strychnine	57-24-9	7	6	1			7	7 7 7			7	
beta-Propiolactone	57-57-8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Metalaxyl	57837-19-1	9 7 2					10 10 10 10				6	4
Tridiphane 58138-08	-2											
2,3,4,6-Tetrachlorophenol	58-90-2	5 5 3					6 6 6 6				3	3
Terbacil	5902-51-2	3 3 3					3 3 3 3				2	1
Calcium cyanide	592-01-8	2 2 2					2 2 2 2				2	
Vinyl bromide	593-60-2											
Dibromodichloromethane	594-18-3											
1,1,2-Trichloropropane 598-77	-6											
Propiconazole	60207-90-1	0					4 3 4 4					
Dimethoate	60-51-5	11 10		4			11 11 11 11				10	1
Furmecyclox	60568-05-0											
Dieldrin 60-57-	1	45	44	7			45 45 45 45				36	9
2,6-Dinitrotoluene 606-20	-2	19	18	4			20 20 20 20				13	7
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4 4 2					4 4 4 4				1	3
1,2,4-Tribromobenzene	615-54-3	2 2 1					2 2 2 2				2	
N-Nitroso-di-N-propylamine 621-64	-7	22	21	4			23 23 23 23				16	7
Acifluorfen, sodium	62476-59-9	2 2 2					2 2 2 2				2	
Methyl isocyanate	624-83-9											
Sodium fluoroacetate	62-74-8	1 1 1					2 2 2 2				1	1
N-Nitrosodimethylamine	62-75-9	15 14		4			16 16 16 16				11	5
Selenourea 630-10	-4											
Nonabromodiphenyl ether	63936-56-1	3 3 2					3 3 3 3				2	1
Diethyl sulfate	64-67-5	1 1 1					1 1 1 1					
Avermectin B1	65195-55-3	4 4 2					4 4 4 4				4	
Thallium carbonate	6533-73-9	1 1 1					1 1 1 1				1	
Cyromazine	66215-27-8											
Flutolanil	66332-96-5	1 1 1					2 2 2 2					
Prochloraz	67747-09-5											
Cyhalothrin/karate	68085-85-8											
Fluvalinate	69409-94-5	2 2 1					2 2 2 2				2	
Haloxypop-methyl 69806-40	-2											

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Propanil	709-98-8											
Fomasafen	72178-02-0											
Endrin 72-20-	8	58	56	7			58 57 58 57				46	12
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37 36		7			37 37 37 37				29	8
Prometryn	7287-19-6	4 4 2					4 4 4 4				2	2
Phosmet	732-11-6	5 4 3					5 4 5 5				4	1
Sethoxydim	74051-80-2	2 1 1					3 3 3 3				1	2
Apollo	74115-24-5											
Radium 226,228	7440-14-4											
Thallium (I) sulfate	7446-18-6	1	1	1			1 1 1 1				1	
Selenium sulfide	7446-34-6	27	27	1			27 27 27 27				27	
1,1-Dichloroethane	75-34-3	33 30		5			45 44 45 45				23	22
Propyleneimine 75-55-	8											
Cacodylic acid	75-60-5	9	9	5			11 11 11 11				6	5
Bromotrichloromethane	75-62-7	1 1 1					1 1 1 1					
Dalapon (sodium salt)	75-99-0	14	14	4			14 14 14 14				13	1
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4	4	4			4 4 4 4				2	2
Heptachlor	76-44-8	54 53		7			54 54 54 54				45	9
Glycidaldehyde	765-34-4											
Assure	76578-14-8											
Paclobutrazol	76738-62-0	7 7 1					7 6 7 7				6	1
Glufosinate-ammonium	77182-82-2											
Trichlorocyclopentadiene	77323-84-3											
Lactofen	77501-63-4											
Fluorine, soluble fluoride	7782-41-4											
Thallium chloride	7791-12-0	1 1 1					1 1 1 1				1	
Merphos oxide	78-48-8	1 1 1					2 2 2 2				1	1
Savey	78587-05-0											
1,2-Dichloropropane	78-87-5	40 37		5			51 50 51 51				32	19
Harmony	79277-27-3											
Demeton 8065-48	-3											

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Imazaquin	81335-37-7	0					2 2 2 2					
Pursuit	81335-77-5											
Warfarin	81-81-2	9 6 2					9 9 9 9				9	
Triasulfuron	82097-50-5											
Isoxaben	82558-50-7	2 2 1					4 3 4 4				2	2
Pentachloronitrobenzene	82-68-8	12 12		5			12 12 12 12				12	
Londax	83055-99-6											
Acenaphthene	83-32-9	35 34		7			37 37 37 37				28	9
Ametryn	834-12-8	6 6 5					6 6 6 6				2	4
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											
Phthalic anhydride	85-44-9											
Nustar	85509-19-9											
Fluorene	86-73-7	17 17		6			19 19 19 19				13	6
Hexachlorobutadiene	87-68-3											
Hexabromobenzene	87-82-1											
Terbutryn	886-50-0	3 3 2					3 3 3 3				1	2
Systhane	88671-89-0	0					1 1 1 1					
Dinoseb	88-85-7	13 13		4			13 13 13 13				13	
ortho-Anisidine 90-04-	0											
Chlorimuron-ethyl 90982-32	-4											
N-Nitroso-di-n-butylamine	924-16-3	2 2 2					2 2 2 2				2	
Benzidine 92-87-	5	22	18	6			23 22 23 23				18	5
N-Nitrosopyrrolidine	930-55-2	1 1 1					1 1 1 1				1	
p-Chlorophenyl methyl sulfoxide	934-73-6											
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55 55 55 55				44	11
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17 17 17 17				16	1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16 16		4			17 17 17 17				16	1
Fonofos	944-22-9	3 3 3					3 3 3 3				2	1
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7 7 3					7 7 7 7				7	
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13 13 13 13				10	3

TABLE A-3d. HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Item Names
(Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Methidathion	950-37-8											
2-Chlorophenol	95-57-8	34	33	6			36	34 36 36			27	9
Diphenamid	957-51-7	3	3				3	3 3 3			1	2
2,4-Diaminotoluene	95-80-7	8	8	2			8	8 8 8			6	2
2,4,5-Trichlorophenol	95-95-4	18	17	5			21	20 21 21			14	7
Tetrachlorovinphos	961-11-5	8	8	2			8	8 8 8			5	3
1,2,3-Trichloropropane 96-18-	4	13	12	4			20	20 20 20			11	9
Furfural	98-01-1	61	60	10			61	61 61 61			45	16
Benzotrichloride	98-07-7	3	3	2			3	3 3 3			2	1
p-Chlorophenyl methyl sulfone	98-57-7											
Acetophenone	98-86-2	11	11	5			14	14 14 14			7	7

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Methanol	67-56-1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Ethylbenzene	100-41-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
Copper	7440-50-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
Nickel	7440-02-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
1,1,1-Trichloroethane 71-55-	6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
n-Butanol	71-36-3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Cadmium 7440-43	-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
n-Heptane 142-82	-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
Dichloromethane	75-09-2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
Manganese	7439-96-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Silver 7440-22	-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
Dichlorodifluoromethane	75-71-8	936	655	38	391	89	953	758	953	953	854	99
Naphthalene	91-20-3	1419	718	27	879	77	1635	928	1635	1626	860	775
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
Ammonia 7664-41	-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
d-Limonene	5989-27-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
Cyclohexanone	108-94-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
Molybdenum 7439-98	-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
1,4-Dioxane	123-91-1	571	469	28	202	63	623	520	623	623	408	215
Antimony	7440-36-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Chlorodifluoromethane	75-45-6	714	514	34	292	60	774	587	774	771	488	286
Hydroquinone 123-31	-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	1588	974	1588	1584	942	646
1,1,1,2-Tetrafluoroethane	811-97-2	598	353	24	347	52	775	575	775	775	132	643
Antimony trioxide	1309-64-4	844	461	34	511	49	906	708	906	904	433	473
Cumene 98-82-	8	1481	778	17	1129	49	1632	1041	1632	1631	386	1246
Trichlorofluoromethane	75-69-4	521	427	31	136	48	535	485	535	534	459	76
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8	874	710	39	258	47	1062	941	1062	1054	493	569
2-Ethoxyethanol	110-80-5	655	475	21	221	47	688	547	688	685	534	154
Asbestos	1332-21-4	470	421	28	212	47	475	365	475	474	417	58
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Tetrachloroethylene	127-18-4	853	646	33	251	45	929	796	929	929	624	305
Trichloroethylene	79-01-6	486	369	30	178	45	568	476	568	568	294	274
Sodium azide	26628-22-8	776	667	16	83	44	1100	1043	1100	1096	328	772
2-Methoxyethanol	109-86-4	511	273	22	321	43	559	357	559	558	332	227
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808	503
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Styrene 100-42	-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600	506	600	596	253	347
Ethylene diamine	107-15-3	342	235	17	166	36	377	320	377	375	170	207
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31	2791	2673	2791	2791	2774	17
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
1,2-Epoxybutane	106-88-7	268	203	18	124	26	300	256	300	300	171	129
Epichlorohydrin	106-89-8	507	445	16	148	26	559	496	559	558	299	260
Vinyl acetate	108-05-4	740	688	21	114	26	953	897	953	952	480	473
Diphenylamine	122-39-4	100	89	14	68	26	123	110	123	123	54	69
Acetaldehyde	75-07-0	183	169	15	51	26	323	280	323	323	49	274
Bisphenol A	80-05-7	405	313	14	191	26	482	405	482	481	166	316
Beryllium and compounds	7440-41-7	340	296	31	74	24	379	340	379	378	220	159
Propylene oxide	75-56-9	205	191	12	54	23	246	224	246	246	137	109

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Selenium and compounds	7782-49-2	253	234	31	41	23	296	267 296 296			170	126
Chlorine	7782-50-5	220	162	18	115	22	241	140 241 241			132	109
N,N-Dimethylformamide	68-12-2	283	228	19	120	21	363	297 363 363			196	167
Formic acid	64-18-6	250	188	14	86	20	271	231 271 271			171	100
Chlorobenzene	108-90-7	193	155	17	60	19	213	188 213 213			134	79
Tricresol	1319-77-3	268	175	22	124	19	272	217 272 272			207	65
1,2-Dichlorobenzene	95-50-1	225	176	17	68	19	249	211 249 249			162	87
Carbon tetrachloride	56-23-5	270	240	14	73	18	292	253 292 291			203	89
Aniline	62-53-3	131	113	14	35	18	140	121 140 140			95	45
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83	80	12	32	15	102	86 102 102			57	45
Potassium cyanide	151-50-8	152	105	9	62	14	161	128 161 161			115	46
Acrylic acid	79-10-7	199	134	17	99	14	234	191 234 234			99	135
1,1-Biphenyl	92-52-4	97	82	15	48	14	98	75 98 98			55	43
Acrylonitrile	107-13-1	239	230	18	37	12	265	246 265 265			131	134
Ammonium acetate	631-61-8	360	206	9	125	12	368	334 368 367			204	164
1,4-Dichlorobenzene	106-46-7	223	183	16	53	11	246	219 246 245			171	75
1,2-Dichloroethane	107-06-2	396	165	16	96	11	440	185 440 219			318	122
Triethylamine	121-44-8	436	404	13	299	11	459	243 459 459			190	269
Chromium (VI)	18540-29-9	139	136	13	37	11	147	133 147 147			116	31
Hydrazine/hydrazine sulfate	302-01-2	66	40	5	40	10	69	51 69 69			53	16
Uranium, natural	7440-61-1	58	47	7	37	10	59	51 59 59			49	10
Diethyl phthalate	84-66-2	51	45	16	14	10	56	53 56 56			34	22
Vanadium pentoxide	1314-62-1	569	560	26	52	9	587	565 587 587			340	247
Diuron	330-54-1	65	39	9	34	8	72	54 72 71			39	33
Selenious acid	7783-00-8	101	80	6	27	8	110	95 110 110			61	49
2-Methylphenol	95-48-7	95	88	12	22	8	103	95 103 103			62	41
Ethylene thiourea	96-45-7	57	54	8	20	8	65	58 65 65			49	16
m-Phenylenediamine	108-45-2	83	68	8	40	7	89	69 89 89			49	40
Pyridine	110-86-1	76	58	6	20	7	83	68 83 83			58	25
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118	116 118 118			107	11
Permethrin	52645-53-1	83	51	8	39	7	103	87 103 103			32	71

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Mercuric chloride	7487-94-7	43	30	5	22	7	50	44	50	50	31	19
Isophorone	78-59-1	200	167	13	13	7	237	212	237	237	170	67
2-Nitropropane	79-46-9	43	38	7	13	7	43	40	43	43	35	8
Coke oven emissions	8007-45-2	74	61	9	16	7	77	68	77	77	70	7
3-Methylphenol	108-39-4	40	39	8	9	6	43	40	43	43	31	12
Folpet	133-07-3	64	60	6	8	6	68	65	68	68	31	37
Thiram	137-26-8	90	84	12	53	6	93	71	93	93	57	36
Tributyltin oxide	56-35-9	98	91	10		6	106	98	106	106	64	42
Cyanide, free	57-12-5	46	42	7	9	6	48	47	48	48	37	11
Phenylmercuric acetate	62-38-4	239	230	13	42	6	240	200	240	240	222	18
Trichloroacetic acid	76-03-9	55	48	6	15	6	62	57	62	62	30	32
o-Chlorotoluene	95-49-8	72	68	11	13	6	94	90	94	94	56	38
di(2-ethylhexyl)Adipate	103-23-1	46	42	16	18	5	50	41	50	50	30	20
4-Methylphenol	106-44-5	36	34	9	7	5	39	36	39	39	26	13
Cyclohexylamine 108-91	-8	145	111	7	40	5	154	129	154	154	114	40
Baygon	114-26-1	99	83	7	12	5	106	98	106	106	84	22
Decabromodiphenyl ether (DBDPE)	1163-19-5	51	32	11	27	5	56	46	56	56	21	35
Sodium cyanide	143-33-9	88	42	5	53	5	90	57	90	90	63	27
trans-1,2-Dichloroethylene	156-60-5	100	77	9	54	5	136	108	136	136	29	107
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5	742	342	742	731	533	209
Hexachlorophene	70-30-4	24	19	6	12	5	24	13	24	24	23	1
Bromochloromethane	74-97-5	47	40	10		5	55	50	55	55	33	22
Creosote	8001-58-9	31	22	9	12	5	32	22	32	32	25	7
Benzaldehyde	100-52-7	93	78	8	39	4	101	71		101	94	41
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10	10	3	10	4	10	5	10	10	10	
Resmethrin	10453-86-8	84	58	5	28	4	86	84	86	86	68	18
N,N-Dimethylaniline	121-69-7	65	44	5	30	4	68	55	68	68	36	32
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	27	25	6	9	4	46	42	46	46	18	28
2,4-Dinitrophenol	51-28-5	30	28	9	5	4	34	30	34	34	18	16
gamma-Hexachlorocyclohexane	58-89-9	82	73	12	11	4	82	77	82	82	73	9
Amdro	67485-29-4	64	32	2	35	4	77	51	77	75	32	45

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethyl chloride	75-00-3	54	49	9 6		4	64	60 64 64			43	21
Tetraethyl lead	78-00-2	97	42		3 56	4	99	57 99 99			89	10
Acrylamide	79-06-1	83	80	8 6		4	303	297 303 303			39	264
Pentachlorophenol	87-86-5	108	96 13 11			4	110	99 110 110			86	24
Caprolactam	105-60-2	23	23	8 5		3	23	22 23 23			7	16
2,4-Dimethylphenol	105-67-9	24	23	7 4		3	26	23 26 26			16	10
Quinone	106-51-4	10	10	4 3		3	11	11 11 11			5	6
Propargyl alcohol	107-19-7	17	16	5 6		3	17	17 17 17			14	3
Maleic anhydride	108-31-6	21	21	6 4		3	21	18 21 21			18	3
1,2,4-Trichlorobenzene	120-82-1	48	46	7 3		3	56	56 56 56			35	21
Dimethylamine	124-40-3	33	30	7 7		3	38	34 38 38			24	14
Captan	133-06-2	9	9 4 3			3	10	10 10 10			8	2
Chlorpyrifos	2921-88-2	153	102	7 3		3	166	144 166 166			110	56
Pentabromodiphenyl ether	32534-81-9	12	9 4 5			3	14	12 14 14			6	8
Silver cyanide	506-64-9	29	12		2 12	3	29	16 29 29			24	5
1,3-Dichlorobenzene	541-73-1	52	49	6 3		3	62	61 62 62			38	24
Nitroguanidine	556-88-7	5	5 3 3			3	5	5 5 5			3	2
Benzo(a)anthracene	56-55-3	31	27		9 12	3	33	32 33 33			14	19
Dichlorvos	62-73-7	48	31		4 15	3	49	42 49 49			37	12
p-Nitrophenol	100-02-7	54	48	8 6		2	55	49 55 55			42	13
Nitric Oxide	10102-43-9	27	26	9 2		2	43	34 43 43			10	33
Glyphosate	1071-83-6	31	23		4 14	2	33	27 33 32			25	8
Arochlor 1254	11097-69-1	66	55	9 3		2	70	67 70 70			35	35
Anthracene	120-12-7	36	32	9 5		2	38	37 38 38			22	16
Zineb	12122-67-7	3	3 2 2			2	3	3 3 3			1	2
Malathion	121-75-5	74	33		5 40	2	80	70 80 80			59	21
Dibromochloromethane	124-48-1	38	35	5 3		2	48	48 48 48			30	18
Sodium diethyldithiocarbamate	148-18-5	7	7 3 2			2	7	7 7 7			4	3
Fluoranthene	206-44-0	30	30	6 8		2	32	31 32 32			26	6
Naled	300-76-5	17	11	2 7		2	18	14 18 16			13	5
Acephate	30560-19-1	25	23	4 5		2	30	27 30 30			20	10

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Tebuthiuron	34014-18-1	16	11	5 8		2	17	12	17 17		5	12
Pentafluoroethane	354-33-6	56	40		3 31	2	86	47	86 86		8	78
Potassium silver cyanide	506-61-6	13	12	3	3	2	14	13	14 14		9	5
Ethyl carbamate	51-79-6	12	12	6 2		2	12	12	12 12		7	5
Cypermethrin	52315-07-8	21	12		1 13	2	26	16	26 26		9	17
1,1,1,2-Tetrachloroethane	630-20-6	13	12	4 2		2	19	19	19 19		10	9
Carbaryl	63-25-2	89	69		6 19	2	93	84	93 93		73	20
Baythroid	68359-37-5	32	12		1 20	2	50	38	50 50		11	39
Bromomethane	74-83-9	53	46	7 3		2	63	61	63 63		45	18
Hydrogen cyanide	74-90-8	29	29	12	2	2	32	31	32 32		20	12
Bromoform	75-25-2	53	50	6 3		2	68	67	68 68		35	33
Phosphine	7803-51-2	16	13	4 8		2	16	8	16 16		9	7
1,1,2-Trichloroethane	79-00-5	39	36	6 2		2	51	49	51 51		31	20
Diquat	85-00-7	31	20		4 15	2	32	22	32 32		22	10
beta-Chloronaphthalene	91-58-7	22	19	6 5		2	24	23	24 24		14	10
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2	109	107	109 109		91	18
Picloram	1918-02-1	10	10	3 2		1	10	10	10 10		10	
Thallium nitrate	10102-45-1	22	22	5 1		1	27	25	27 27		9	18
Hexachlorobenzene	118-74-1	85	79	9 5		1	88	83	88 88		66	22
3,3-Dimethylbenzidine	119-93-7	13	12	3 1		1	14	13	14 14		11	3
2,4-Dinitrotoluene	121-14-2	39	38	6 2		1	43	41	43 43		27	16
Arochlor 1016	12674-11-2	37	33	5 1		1	41	41	41 41		14	27
Zinc phosphide	1314-84-7	18	11	3 4		1	19	10	19 19		11	8
Triethylene glycol monobutyl ether	143-22-6	48	30		4 22	1	60	45	60 60		17	43
cis-1,2-Dichloroethylene	156-59-2	18	17	4 1		1	27	27	27 27		14	13
Prometon	1610-18-0	26	20	5 5		1	28	25	28 28		19	9
Methomyl	16752-77-5	20	8 2		13	1	22	16	22 22		10	12
Chlorothalonil	1897-45-6	174	162	8 3		1	205	174	205 205		114	91
Oryzalin	19044-88-3	13	9 3 5			1	13	13	13 13		10	3
Dicamba	1918-00-9	50	45	5 1		1	58	57	58 58		44	14
Nitrapyrin	1929-82-4	2	2 2 1			1	2	2	2 2		2	

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Indeno[1,2,3-cd]pyrene	193-39-5	21	21	6 7		1	23	23 23 23			11	12
Benzo(b)fluoranthene	205-99-2	23	23	6 7		1	25	25 25 25			13	12
Benzo(k)fluoranthene	207-08-9	22	22	7 7		1	24	24 24 24			11	13
Aluminum phosphide	20859-73-8	19	5 3		16	1	19	17 19 19			12	7
Chrysene	218-01-9	32	31	7 7		1	34	34 34 34			21	13
Benzo [a] pyrene	50-32-8	38	36	7	7	1	41	41 41 41			22	19
Hexazinone	51235-04-2	28	16	3 8		1	29	17 29 29			20	9
Propylene glycol monoethyl ether	52125-53-8	6	6 2 2			1	6	6 6 6			4	2
2-Chloroacetophenone	532-27-4	10	10	6 1		1	10	10 10 10			9	1
Dibenzo(a,h)anthracene	53-70-3	21	21	6 7		1	23	23 23 23			11	12
Barium cyanide	542-62-1	6	1 1 6			1	6	3 6 6			6	
Copper cyanide	544-92-3	20	12	2 5		1	20	12 20 20			17	3
Zinc cyanide	557-21-1	9	8 2 1			1	9	8 9 9			6	3
2,6-Dimethylphenol	576-26-1	12	12	3 2		1	12	11 12 12			9	3
Fluridone	59756-60-4	7	5 3 4			1	8	7 8 8			3	5
Pentachlorobenzene	608-93-5	4	4 4 1			1	4	4 4 4			3	1
Chlorsulfuron	64902-72-3	1	1 1 1			1	2	2 2 2			1	1
Tralomethrin	66841-25-6	3	3 1 1			1	6	6 6 6				
Hexachloroethane	67-72-1	38	36	7 1		1	39	36 39 39			31	8
Methoxychlor	72-43-5	62	62	7 1		1	63	63 63 63			58	5
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	35	34	7 1		1	37	37 37 37			25	12
Ally	74223-64-6	4	3 1 2			1	6	6 6 6			3	3
Carbon disulfide	75-15-0	37	29	6 6		1	40	32 40 40			24	16
Bromodichloromethane	75-27-4	41	38	5 2		1	50	50 50 50			31	19
Aluminum sulfamate	7773-06-0	9	8 3 1			1	9	8 9 9			9	
Dimethyl sulfate	77-78-1	4	4 3 2			1	4	4 4 4			3	1
Arsine	7784-42-1	11	10	3 4		1	11	4 11 11			7	4
Methyl chlorocarbonate	79-22-1	4	2 2 3			1	4	3 4 4			3	1
1,1,2,2-Tetrachloroethane	79-34-5	32	29	4 1		1	43	42 43 43			26	17
Toxaphene	8001-35-2	24	22	6 2		1	24	24 24 24			20	4
Biphenthrin	82657-04-3	4	3 2 2			1	12	10 12 12				

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Rotenone	83-79-4	5 4 2 2				1	6	6 6 6			5	1
Phenanthrene	85-01-8	34	32 9 5			1	36	32 36 36			21	15
N-Nitrosodiphenylamine	86-30-6	27 26		5 11		1	29	29 29 29			23	6
2,4,6-Trichlorophenol	88-06-2	34	33 7 1			1	35	33 35 35			21	14
3,4-Dimethylphenol	95-65-8	3 2 1 3				1	3	1 3 3				
1,2,4,5-Tetrachlorobenzene	95-94-3	4 4 4 1				1	4	4 4 4			3	1
1,2-Dibromo-3-chloropropane	96-12-8	23	22 5 1			1	30	30 30 30			20	10
Methyl acrylate	96-33-3	83 56		4 78		1	102	67 102 102			1	101
Nitrobenzene	98-95-3	36	30 5 6			1	37	36 37 37			28	9
1,3,5-Trinitrobenzene	99-35-4	6 5 3 3				1	7	7 7 7			5	2
Captafol 2425-06	-1											
Dodine	2439-10-3	3 2 2					3	2 3 3			3	
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Benzyl chloride	100-44-7	6 6 5					7	6 7 7			4	3
Express	101200-48-0											
Chlorpropham	101-21-3	7 7 3					8	8 8 8			4	4
Heptachlor epoxide	1024-57-3	45 44		6			45	45 45 45			38	7
Methamidophos	10265-92-6											
Azobenzene 103-33	-3	16	15	4			17	17 17 17			10	7
N-Nitroso-N-methylethylamine	10595-95-6	1 1 1					1	1 1 1			1	
Monchloramine	10599-90-3											
1,4-Dibromobenzene	106-37-6	2 2 1					2	2 2 2			1	1
p-Chloroaniline	106-47-8	7 6 3					8	8 8 8			5	3
Allyl chloride	107-05-1	4 4 2					4	4 4 4			3	1
Allyl alcohol	107-18-6	1 1 1					1	1 1 1			1	
Chloromethyl methyl ether	107-30-2											
Bis(2-chloroisopropyl) ether	108-60-1	14 13		4			14	14 14 14			11	3
1-Chlorobutane 109-69	-3	14	14	2			14	14 14 14			4	10
Furan	110-00-9	1 1 1					1	1 1 1			1	
Bis(chloroethyl)ether 111-44	-4	18	17	4			20	19 20 20			12	8
N-Nitrosodiethanolamine	1116-54-7	4 2 2					4	2 4 2			2	2

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Adiponitrile	111-69-3	4 4 3					4	4 4 4			3	1
Bis(2-chloroethoxy)methane 111-91	-1	13	12	4			14	14 14 14			10	4
Endosulfan	115-29-7	3 3 2					3	3 3 3			3	
Aldicarb	116-06-3	3 3 3					3	3 3 3			3	
2,4,6-Trinitrotoluene	118-96-7	36 29		5			51	46 51 51			35	16
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
Dimethyl terephthalate (DMT)	120-61-6	2 2 1					2	2 2 2			2	
2,4-Dichlorophenol	120-83-2											
Simazine	122-34-9	43 34		4			46	38 46 46			32	14
Propham	122-42-9											
1,2-Diphenylhydrazine	122-66-7	1 1 1					1	1 1 1			1	
p-Chlorophenyl methyl sulfide	123-09-1											
Maleic hydrazide	123-33-1	1 1 1					1	1 1 1				
Maneb	12427-38-2	6 6 1					6	6 6 6			6	
Methacrylonitrile	126-98-7	2 2 2					2	2 2 2			1	1
Chlordane (technical)	12789-03-6	1 1 1					1	1 1 1			1	
Pyrene	129-00-0	28 28		7			30	30 30 30			22	8
Thallic oxide	1314-32-5	5 5 4					6	6 6 6			3	3
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Dibenzofuran 132-64	-9	15	14	8			17	17 17 17			6	11
Chloramben	133-90-4	6 6 3					6	6 6 6			5	1
Nickel carbonyl	13463-39-3											
Quinalphos	13593-03-8											
Phenmedipham	13684-63-4											
Propazine	139-40-2	3 3 2					3	3 3 3			1	2
Aramite	140-57-8	2 2 2					2	2 2 2			2	
Bidrin	141-66-2	2 2 2					2	2 2 2			1	1
Diisopropyl methylphosphonate	1445-75-6											
Endothall	145-73-3	8 8 2					8	8 8 8			6	2
Nitrate	14797-55-8	1 1 1					2	2 2 2				

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Nitrite 14797-65	-0											
Merphos	150-50-5	6 6 2					6	6 6 6			3	3
Ethyleneimine	151-56-4	5 5 3					5	5 5 5			3	2
Napropamide	15299-99-7	2 2 2					2	2 2 2			1	1
Carbofuran	1563-66-2	4 4 3					4	4 4 4			4	
Trifluralin 1582-09	-8	25	23	5			27	26 27 27			19	8
Alar	1596-84-5											
Alachlor	15972-60-8	19 19		5			19	19 19 19			15	4
Aldicarb sulfone	1646-88-4	3 3 3					3	3 3 3			3	
Ethephon 16672-87	-0											
Bromoxynil	1689-84-5											
Bromoxynil octanoate	1689-99-2	3 3 1					3	3 3 3			3	
Benomyl	17804-35-2	6 6 2					6	4 6 6			5	1
Isopropyl methyl phosphonic acid	1832-54-8											
Dacthal	1861-32-1	20 15		5			20	19 20 20			14	6
Benefin	1861-40-1	15 13		4			16	16 16 16			15	1
Paraquat	1910-42-5	8 6 3					8	8 8 8			6	2
Atrazine	1912-24-9	34 32		5			37	37 37 37			27	10
Benzo[g,h,i]perylene 191-24	-2	14	14	5			19	19 19 19			11	8
Propachlor 1918-16	-7	13	11	5			14	13 14 14			7	7
Vernam	1929-77-7	7 7 4					7	7 7 7			5	2
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Oxadiazon	19666-30-9	11 11		3			14	13 14 14			6	8
Butylate	2008-41-5	5 5 3					5	5 5 5			3	2
p,p'-Dibromodiphenyl ether	2050-47-7	2 2 2					2	2 2 2			1	1
Acenaphthylene 208-96	-8	18	18	6			20	20 20 20			15	5
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3 3 2					3	3 3 3			3	
Metribuzin 21087-64	-9	15	15	4			16	16 16 16			11	5
Fluometuron	2164-17-2	1 1 1					1	1 1 1			1	
Cyanazine	21725-46-2	4 4 3					4	4 4 4				
Molinate	2212-67-1	5 5 3					5	5 5 5			3	2

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Fenamiphos	22224-92-6	6 6 3					6	6 6 6			4	2
Triallate	2303-17-5	1 1 1					1	1 1 1			1	
Phosolone	2310-17-0											
Propargite	2312-35-8											
Oxamyl	23135-22-0	5 5 3					5	5 5 5			5	
Thiophanate-methyl	23564-05-8											
Mirex	2385-85-5											
Pronamide	23950-58-5	8 8 4					8	8 8 8			7	1
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene	25329-35-5											
Norflurazon	27314-13-2	3 3 2					3	3 3 3			2	1
Thiobencarb	28249-77-6	1 1 1					1	1 1 1			1	
Pirimiphos-methyl	29232-93-7											
Methyl parathion	298-00-0	7 6 3					7	7 7 7			5	2
Disulfoton 298-04	-4	25	25	4			25	25 25 25			21	4
Aldrin 309-00	-2	44	43	7			44	43 44 44			34	10
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31 30		6			31	31 31 31			25	6
beta-Hexachlorocyclohexane 319-85	-7	29	28	6			29	29 29 29			23	6
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30	29	6			30	30 30 30			24	6
Octabromodiphenyl ether	32536-52-0	2 2 1					2	2 2 2			2	
Linuron	330-55-2	1 1 1					1	1 1 1			1	
Amitraz	33089-61-1	3 3 2					3	3 3 3			1	2
Asulam	3337-71-1											
Diazomethane	334-88-3											
Isopropalin	33820-53-0	1 1 1					1	1 1 1			1	
Acetochlor 34256-82	-1											
Diffubenzuron	35367-38-5											
Imazalil	35554-44-0											
Hexabromodiphenyl ether	36483-60-0											
Iprodione	36734-19-7	9 9 3					14	13	14	14	7	7
Tetraethyldithiopyrophosphate	3689-24-5	4 4 3					4	4 4 4			4	

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Fosetyl-al	39148-24-8											
Danitol	39515-41-8											
Tetrabromodiphenyl ether	40088-47-9											
Pendimethalin	40487-42-1	27	27	4			32	32	32		15	17
Oxyfluorfen	42874-03-3	3	3				4	4	4		3	1
Bayleton	43121-43-3	13	12	4			15	15	15		10	5
Difenzoquat	43222-48-6											
Cyanogen	460-19-5	5	5	3			6	6	6		1	5
Carbonyl sulfide	463-58-1	4	4	2			4	4	4		1	3
Tribromodiphenyl ether	49690-94-0											
Formaldehyde	50-00-0											
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112	54	6			114	56	114	57	94	20
4-Aminopyridine	504-24-5	15	15	2			16	16	16		14	2
Vinclozolin	50471-44-8	2	2	1			4	4	4		2	2
Chlorine cyanide	506-77-4											
t-Butyl chloride	507-20-0	1	1	1			1	1	1			
Chlorobenzilate	510-15-6	12	10	5			12	11	12	12	6	6
Metolachlor	51218-45-2	9	9	4			9	9	9		5	4
Pydrin	51630-58-1	14	13	4			14	14	14		14	
Carboxin	5234-68-4	5	5	2			5	5	5		2	3
o-Dinitrobenzene	528-29-0											
Bis(chloromethyl) ether	542-88-1											
N-Nitrosodiethylamine	55-18-5	1	1	1			1	1	1		1	
Carbosulfan	55285-14-8											
Dimethipin	55290-64-7											
Ethion	563-12-2	6	5	3			6	6	6		4	2
Thallium acetate	563-68-8	4	4	3			4	4	4		3	1
Parathion	56-38-2	8	7	4			8	8	8		7	1
Strychnine	57-24-9	7	6	1			7	7	7		7	
beta-Propiolactone	57-57-8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Metalaxyl	57837-19-1	9	7	2			10	10	10	10	6	4
Tridiphane 58138-08	-2											
2,3,4,6-Tetrachlorophenol	58-90-2	5	5	3			6	6	6	6	3	3
Terbacil	5902-51-2	3	3	3			3	3	3	3	2	1
Calcium cyanide	592-01-8	2	2	2			2	2	2	2	2	
Vinyl bromide	593-60-2											
Dibromodichloromethane	594-18-3											
1,1,2-Trichloropropane 598-77	-6											
Propiconazole	60207-90-1	0					4	3	4	4		
Dimethoate	60-51-5	11	10		4		11	11	11	11	10	1
Furmecyclox	60568-05-0											
Dieldrin 60-57-	1	45	44	7			45	45	45	45	36	9
2,6-Dinitrotoluene 606-20	-2	19	18	4			20	20	20	20	13	7
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4	4	2			4	4	4	4	1	3
1,2,4-Tribromobenzene	615-54-3	2	2	1			2	2	2	2	2	
N-Nitroso-di-N-propylamine 621-64	-7	22	21	4			23	23	23	23	16	7
Acifluorfen, sodium	62476-59-9	2	2	2			2	2	2	2	2	
Methyl isocyanate	624-83-9											
Sodium fluoroacetate	62-74-8	1	1	1			2	2	2	2	1	1
N-Nitrosodimethylamine	62-75-9	15	14		4		16	16	16	16	11	5
Selenourea 630-10	-4											
Nonabromodiphenyl ether	63936-56-1	3	3	2			3	3	3	3	2	1
Diethyl sulfate	64-67-5	1	1	1			1	1	1	1		
Avermectin B1	65195-55-3	4	4	2			4	4	4	4	4	
Thallium carbonate	6533-73-9	1	1	1			1	1	1	1	1	
Cyromazine	66215-27-8											
Flutolanil	66332-96-5	1	1	1			2	2	2	2		
Prochloraz	67747-09-5											
Cyhalothrin/karate	68085-85-8											
Fluvalinate	69409-94-5	2	2	1			2	2	2	2	2	
Haloxypop-methyl 69806-40	-2											

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Propanil	709-98-8											
Fomasafen	72178-02-0											
Endrin 72-20-	8	58	56	7			58	57 58 57			46	12
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37 36		7			37	37 37 37			29	8
Prometryn	7287-19-6	4 4 2					4	4 4 4			2	2
Phosmet	732-11-6	5 4 3					5	4 5 5			4	1
Sethoxydim	74051-80-2	2 1 1					3	3 3 3			1	2
Apollo	74115-24-5											
Radium 226,228	7440-14-4											
Thallium (I) sulfate	7446-18-6	1	1	1			1	1 1 1			1	
Selenium sulfide	7446-34-6	27	27	1			27	27 27 27			27	
1,1-Dichloroethane	75-34-3	33 30		5			45	44 45 45			23	22
Propyleneimine 75-55-	8											
Cacodylic acid	75-60-5	9 9 5					11	11	11	11	6	5
Bromotrichloromethane	75-62-7	1 1 1					1	1 1 1				
Dalapon (sodium salt)	75-99-0	14	14	4			14	14 14 14			13	1
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4	4	4			4	4 4 4			2	2
Heptachlor	76-44-8	54 53		7			54	54 54 54			45	9
Glycidaldehyde	765-34-4											
Assure	76578-14-8											
Paclobutrazol	76738-62-0	7 7 1					7	6 7 7			6	1
Glufosinate-ammonium	77182-82-2											
Trichlorocyclopentadiene	77323-84-3											
Lactofen	77501-63-4											
Fluorine, soluble fluoride	7782-41-4											
Thallium chloride	7791-12-0	1 1 1					1	1 1 1			1	
Merphos oxide	78-48-8	1 1 1					2	2 2 2			1	1
Savey	78587-05-0											
1,2-Dichloropropane	78-87-5	40 37		5			51	50 51 51			32	19
Harmony	79277-27-3											
Demeton 8065-48	-3											

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Imazaquin	81335-37-7	0					2	2 2 2				
Pursuit	81335-77-5											
Warfarin	81-81-2	9 6 2					9	9 9 9			9	
Triasulfuron	82097-50-5											
Isoxaben	82558-50-7	2 2 1					4	3 4 4			2	2
Pentachloronitrobenzene	82-68-8	12 12		5			12	12 12 12			12	
Londax	83055-99-6											
Acenaphthene	83-32-9	35 34		7			37	37 37 37			28	9
Ametryn	834-12-8	6 6 5					6	6 6 6			2	4
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											
Phthalic anhydride	85-44-9											
Nustar	85509-19-9											
Fluorene	86-73-7	17 17		6			19	19 19 19			13	6
Hexachlorobutadiene	87-68-3											
Hexabromobenzene	87-82-1											
Terbutryn	886-50-0	3 3 2					3	3 3 3			1	2
Systhane	88671-89-0	0					1	1 1 1				
Dinoseb	88-85-7	13 13		4			13	13 13 13			13	
ortho-Anisidine 90-04-	0											
Chlorimuron-ethyl 90982-32	-4											
N-Nitroso-di-n-butylamine	924-16-3	2 2 2					2	2 2 2			2	
Benzidine 92-87-	5	22	18	6			23	22 23 23			18	5
N-Nitrosopyrrolidine	930-55-2	1 1 1					1	1 1 1			1	
p-Chlorophenyl methyl sulfoxide	934-73-6											
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55	55 55 55			44	11
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17	17 17 17			16	1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16 16		4			17	17 17 17			16	1
Fonofos	944-22-9	3 3 3					3	3 3 3			2	1
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7 7 3					7	7 7 7			7	
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13	13 13 13			10	3

TABLE A-3e. Unique HMIRS Item Names: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Item Names (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Methidathion	950-37-8											
2-Chlorophenol	95-57-8	34	33	6			36	34	36	36	27	9
Diphenamid	957-51-7	3	3				3	3	3		1	2
2,4-Diaminotoluene	95-80-7	8	8	2			8	8	8		6	2
2,4,5-Trichlorophenol	95-95-4	18	17	5			21	20	21	21	14	7
Tetrachlorovinphos	961-11-5	8	8	2			8	8	8		5	3
1,2,3-Trichloropropane 96-18-	4	13	12	4			20	20	20	20	11	9
Furfural	98-01-1	61	60	10			61	61	61	61	45	16
Benzotrichloride	98-07-7	3	3	2			3	3	3		2	1
p-Chlorophenyl methyl sulfone	98-57-7											
Acetophenone	98-86-2	11	11	5			14	14	14	14	7	7

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylbenzene	100-41-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Nickel	7440-02-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
Methanol	67-56-1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Manganese	7439-96-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Copper	7440-50-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
n-Butanol	71-36-3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Dichloromethane	75-09-2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
1,1,1-Trichloroethane	71-55-6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Molybdenum	7439-98-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Cyclohexanone	108-94-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31	2791	2673	2791	2791	2774	17
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
Silver	7440-22-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Hydroquinone	123-31-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
n-Heptane	142-82-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Antimony	7440-36-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
Cadmium	7440-43-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
Styrene	100-42-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742
Naphthalene 91-20-	3	1419	718	27	879	77	1635	928	1635	1626	860	775
Cumene 98-82-	8	1481	778	17	1129	49	1632	1041	1632	1631	386	1246
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	1588	974	1588	1584	942	646

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
d-Limonene 5989-27	-5	1314	963	26	670	68	1488	1033	1488	1486	604 884	
Ammonia	7664-41-7	1353	1116	37	292	74	1453	1246	1453	1453	936 517	
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808 503	
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641 491	
Sodium azide	26628-22-8	776 667		16	83	44	1100	1043	1100	1096	328 772	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939 148	
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759 311	
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8	874 710		39	258	47	1062	941	1062	1054	493 569	
White phosphorus	7723-14-0	937 864		53	171	41	1054	910	1054	1053	741 313	
Vinyl acetate	108-05-4	740 688		21	114	26	953	897	953 952		480	473
Dichlorodifluoromethane	75-71-8	936 655		38	391	89	953	758	953 953		854	99
Tetrachloroethylene	127-18-4	853 646		33	251	45	929	796	929 929		624	305
Antimony trioxide	1309-64-4	844 461		34	511	49	906	708	906 904		433	473
1,1,1,2-Tetrafluoroethane	811-97-2	598 353		24	347	52	775	575	775 775		132	643
Chlorodifluoromethane	75-45-6	714 514		34	292	60	774	587	774 771		488	286
Methyl tert-butyl ether	1634-04-4	721 269		11	393	5	742	342	742 731		533	209
2-Ethoxyethanol	110-80-5	655 475		21	221	47	688	547	688 685		534	154
1,4-Dioxane	123-91-1	571 469		28	202	63	623	520	623 623		408	215
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487 374		27	180	38	600	506	600 596		253	347
Vanadium pentoxide	1314-62-1	569 560		26	52	9	587	565	587 587		340	247
Trichloroethylene	79-01-6	486 369		30	178	45	568	476	568 568		294	274
Epichlorohydrin	106-89-8	507 445		16	148	26	559	496	559 558		299	260
2-Methoxyethanol	109-86-4	511 273		22	321	43	559	357	559 558		332	227
Trichlorofluoromethane	75-69-4	521 427		31	136	48	535	485	535 534		459	76
Bisphenol A	80-05-7	405 313		14	191	26	482	405	482 481		166	316
Asbestos	1332-21-4	470 421		28	212	47	475	365	475 474		417	58
Triethylamine	121-44-8	436 404		13	299	11	459	243	459 459		190	269
1,2-Dichloroethane	107-06-2	396 165		16	96	11	440	185	440 219		318	122
Beryllium and compounds	7440-41-7	340	296	31	74	24	379	340	379 378		220	159
Ethylene diamine	107-15-3	342 235		17	166	36	377	320	377 375		170	207
Ammonium acetate	631-61-8	360 206		9	125	12	368	334	368 367		204	164
N,N-Dimethylformamide	68-12-2	283 228		19	120	21	363	297	363 363		196	167

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Acetaldehyde	75-07-0	183 169		15	51	26	323	280 323 323			49	274
Acrylamide	79-06-1	83 80		8	6	4	303	297 303 303			39	264
1,2-Epoxybutane	106-88-7	268 203		18	124	26	300	256 300 300			171	129
Selenium and compounds	7782-49-2	253	234	31	41	23	296	267 296 296			170	126
Carbon tetrachloride	56-23-5	270 240		14	73	18	292	253 292 291			203	89
Tricresol	1319-77-3	268 175		22	124	19	272	217 272 272			207	65
Formic acid	64-18-6	250 188		14	86	20	271	231 271 271			171	100
Acrylonitrile	107-13-1	239 230		18	37	12	265	246 265 265			131	134
1,2-Dichlorobenzene	95-50-1	225 176		17	68	19	249	211 249 249			162	87
1,4-Dichlorobenzene	106-46-7	223 183		16	53	11	246	219 246 245			171	75
Propylene oxide	75-56-9	205 191		12	54	23	246	224 246 246			137	109
Chlorine	7782-50-5	220 162		18	115	22	241	140 241 241			132	109
Phenylmercuric acetate	62-38-4	239 230		13	42	6	240	200 240 240			222	18
Isophorone	78-59-1	200 167		13	13	7	237	212 237 237			170	67
Acrylic acid	79-10-7	199 134		17	99	14	234	191 234 234			99	135
Chlorobenzene	108-90-7	193 155		17	60	19	213	188 213 213			134	79
Chlorothalonil	1897-45-6	174 162		8	3	1	205	174 205 205			114	91
Chlorpyrifos	2921-88-2	153 102		7	3	3	166	144 166 166			110	56
Potassium cyanide	151-50-8	152 105		9	62	14	161	128 161 161			115	46
Cyclohexylamine	108-91-8	145 111		7	40	5	154	129 154 154			114	40
Chromium (VI)	18540-29-9	139 136		13	37	11	147	133 147 147			116	31
Aniline	62-53-3	131 113		14	35	18	140	121 140 140			95	45
trans-1,2-Dichloroethylene 156-60	-5	100	77	9	54	5	136	108 136 136			29	107
Diphenylamine 122-39	-4	100	89	14	68	26	123	110 123 123			54	69
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118	116 118 118			107	11
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112	54	6			114	56 114	57 94 20			
Selenious acid	7783-00-8	101	80	6	27	8	110	95 110 110			61	49
Pentachlorophenol 87-86-	5	108	96	13	11	4	110	99 110 110			86	24
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2	109	107 109 109			91	18
Baygon	114-26-1	99 83		7	12	5	106	98 106 106			84	22
Tributyltin oxide	56-35-9	98 91		10	6	6	106	98 106 106			64	42
Permethrin	52645-53-1	83 51		8	39	7	103	87 103 103			32	71

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
2-Methylphenol	95-48-7	95 88		12	22	8	103	95 103	103		62	41
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83 80		12	32	15	102	86 102	102		57	45
Methyl acrylate	96-33-3	83 56		4	78	1	102	67 102	102		1	101
Benzaldehyde	100-52-7	93 78		8	39	4	101	71 101	101	94 60 41		
Tetraethyl lead	78-00-2	97 42		3	56	4	99	57 99	99		89	10
1,1-Biphenyl	92-52-4	97 82		15	48	14	98	75 98	98		55	43
o-Chlorotoluene	95-49-8	72 68		11	13	6	94	90 94	94		56	38
Thiram	137-26-8	90 84		12	53	6	93	71 93	93		57	36
Carbaryl	63-25-2	89 69		6	19	2	93	84 93	93		73	20
Sodium cyanide	143-33-9	88 42		5	53	5	90	57 90	90		63	27
m-Phenylenediamine	108-45-2	83 68		8	40	7	89	69 89	89		49	40
Hexachlorobenzene	118-74-1	85 79		9	5	1	88	83 88	88		66	22
Resmethrin	10453-86-8	84 58		5	28	4	86	84 86	86		68	18
Pentafluoroethane	354-33-6	56 40		3	31	2	86	47 86	86		8	78
Pyridine	110-86-1	76 58		6	20	7	83	68 83	83		58	25
gamma-Hexachlorocyclohexane	58-89-9	82 73		12	11	4	82	77 82	82		73	9
Malathion	121-75-5	74 33		5	40	2	80	70 80	80		59	21
Amdro	67485-29-4	64 32		2	35	4	77	51 77	75		32	45
Coke oven emissions	8007-45-2	74	61	9	16	7	77	68 77	77		70	7
Diuron	330-54-1	65 39		9	34	8	72	54 72	71		39	33
Arochlor 1254	11097-69-1	66 55		9	3	2	70	67 70	70		35	35
Hydrazine/hydrazine sulfate	302-01-2	66 40		5	40	10	69	51 69	69		53	16
N,N-Dimethylaniline	121-69-7	65 44		5	30	4	68	55 68	68		36	32
Folpet	133-07-3	64 60		6	8	6	68	65 68	68		31	37
Bromoform	75-25-2	53 50		6	3	2	68	67 68	68		35	33
Ethylene thiourea	96-45-7	57 54		8	20	8	65	58 65	65		49	16
Ethyl chloride	75-00-3	54 49		9	6	4	64	60 64	64		43	21
Methoxychlor	72-43-5	62 62		7	1	1	63	63 63	63		58	5
Bromomethane	74-83-9	53 46		7	3	2	63	61 63	63		45	18
1,3-Dichlorobenzene	541-73-1	52 49		6	3	3	62	61 62	62		38	24
Trichloroacetic acid	76-03-9	55 48		6	15	6	62	57 62	62		30	32
Furfural	98-01-1	61 60		10			61	61 61	61		45	16

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Triethylene glycol monobutyl ether	143-22-6	48	30	4	22	1	60	45	60	60	17	43
Uranium, natural	7440-61-1	58	47	7	37	10	59	51	59	59	49	10
Dicamba	1918-00-9	50	45	5	1	1	58	57	58	58	44	14
Endrin	72-20-8	58	56	7			58	57	58	57	46	12
Decabromodiphenyl ether (DBDPE)	1163-19-5	51	32	11	27	5	56	46	56	56	21	35
1,2,4-Trichlorobenzene	120-82-1	48	46	7	3	3	56	56	56	56	35	21
Diethyl phthalate	84-66-2	51	45	16	14	10	56	53	56	56	34	22
p-Nitrophenol	100-02-7	54	48	8	6	2	55	49	55	55	42	13
Bromochloromethane	74-97-5	47	40	10	5	5	55	50	55	55	33	22
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55	55	55	55	44	11
Heptachlor	76-44-8	54	53	7			54	54	54	54	45	9
2,4,6-Trinitrotoluene	118-96-7	36	29	5			51	46	51	51	35	16
1,2-Dichloropropane	78-87-5	40	37	5			51	50	51	51	32	19
1,1,2-Trichloroethane	79-00-5	39	36	6	2	2	51	49	51	51	31	20
di(2-ethylhexyl)Adipate	103-23-1	46	42	16	18	5	50	41	50	50	30	20
Baythroid	68359-37-5	32	12	1	20	2	50	38	50	50	11	39
Mercuric chloride	7487-94-7	43	30	5	22	7	50	44	50	50	31	19
Bromodichloromethane	75-27-4	41	38	5	2	1	50	50	50	50	31	19
Dichlorvos	62-73-7	48	31	4	15	3	49	42	49	49	37	12
Dibromochloromethane	124-48-1	38	35	5	3	2	48	48	48	48	30	18
Cyanide, free	57-12-5	46	42	7	9	6	48	47	48	48	37	11
Simazine	122-34-9	43	34	4			46	38	46	46	32	14
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	27	25	6	9	4	46	42	46	46	18	28
Heptachlor epoxide	1024-57-3	45	44	6			45	45	45	45	38	7
Dieldrin	60-57-1	45	44	7			45	45	45	45	36	9
1,1-Dichloroethane	75-34-3	33	30	5			45	44	45	45	23	22
Aldrin	309-00-2	44	43	7			44	43	44	44	34	10
Nitric Oxide	10102-43-9	27	26	9	2	2	43	34	43	43	10	33
3-Methylphenol	108-39-4	40	39	8	9	6	43	40	43	43	31	12
2,4-Dinitrotoluene	121-14-2	39	38	6	2	1	43	41	43	43	27	16
1,1,2,2-Tetrachloroethane	79-34-5	32	29	4	1	1	43	42	43	43	26	17
2-Nitropropane	79-46-9	43	38	7	13	7	43	40	43	43	35	8

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Arochlor 1016	12674-11-2	37 33		5	1	1	41	41 41 41			14	27
Benzo [a] pyrene	50-32-8	38	36	7	7	1	41	41 41 41			22	19
Carbon disulfide	75-15-0	37 29		6	6	1	40	32 40 40			24	16
4-Methylphenol	106-44-5	36 34		9	7	5	39	36 39 39			26	13
Hexachloroethane	67-72-1	38 36		7	1	1	39	36 39 39			31	8
Anthracene	120-12-7	36 32		9	5	2	38	37 38 38			22	16
Dimethylamine	124-40-3	33 30		7	7	3	38	34 38 38			24	14
Atrazine	1912-24-9	34 32		5			37	37 37 37			27	10
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37	36	7			37	37 37 37			29	8
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	35 34		7	1	1	37	37 37 37			25	12
Acenaphthene	83-32-9	35 34		7			37	37 37 37			28	9
Nitrobenzene	98-95-3	36 30		5	6	1	37	36 37 37			28	9
Phenanthrene	85-01-8	34 32		9	5	1	36	32 36 36			21	15
2-Chlorophenol	95-57-8	34 33		6			36	34 36 36			27	9
2,4,6-Trichlorophenol	88-06-2	34 33		7	1	1	35	33 35 35			21	14
Chrysene	218-01-9	32 31		7	7	1	34	34 34 34			21	13
2,4-Dinitrophenol	51-28-5	30 28		9	5	4	34	30 34 34			18	16
Glyphosate	1071-83-6	31 23		4	14	2	33	27 33 32			25	8
Benzo(a)anthracene	56-55-3	31 27		9	12	3	33	32 33 33			14	19
Fluoranthene	206-44-0	30 30		6	8	2	32	31 32 32			26	6
Pendimethalin	40487-42-1	27 27		4			32	32 32 32			15	17
Hydrogen cyanide	74-90-8	29 29		12	2	2	32	31 32 32			20	12
Creosote	8001-58-9	31 22		9	12	5	32	22 32 32			25	7
Diquat	85-00-7	31 20		4	15	2	32	22 32 32			22	10
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31 30		6			31	31 31 31			25	6
Pyrene	129-00-0	28 28		7			30	30 30 30			22	8
Acephate	30560-19-1	25 23		4	5	2	30	27 30 30			20	10
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30 29		6			30	30 30 30			24	6
1,2-Dibromo-3-chloropropane	96-12-8	23 22		5	1	1	30	30 30 30			20	10
beta-Hexachlorocyclohexane	319-85-7	29 28		6			29	29 29 29			23	6
Silver cyanide	506-64-9	29 12		2	12	3	29	16 29 29			24	5
Hexazinone	51235-04-2	28 16		3	8	1	29	17 29 29			20	9

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
N-Nitrosodiphenylamine	86-30-6	27 26		5	11	1	29	29 29 29			23	6
Prometon	1610-18-0	26 20		5	5	1	28	25 28 28			19	9
Thallium nitrate	10102-45-1	22 22		5	1	1	27	25 27 27			9	18
cis-1,2-Dichloroethylene	156-59-2	18 17		4	1	1	27	27 27 27			14	13
Trifluralin	1582-09-8	25 23		5			27	26 27 27			19	8
Selenium sulfide	7446-34-6	27	27	1			27	27 27 27			27	
2,4-Dimethylphenol	105-67-9	24 23		7	4	3	26	23 26 26			16	10
Cypermethrin	52315-07-8	21 12		1	13	2	26	16 26 26			9	17
Benzo(b)fluoranthene	205-99-2	23 23		6	7	1	25	25 25 25			13	12
Disulfoton	298-04-4	25 25		4			25	25 25 25			21	4
Benzo(k)fluoranthene	207-08-9	22 22		7	7	1	24	24 24 24			11	13
Hexachlorophene	70-30-4	24 19		6	12	5	24	13 24 24			23	1
Toxaphene	8001-35-2	24 22		6	2	1	24	24 24 24			20	4
beta-Chloronaphthalene	91-58-7	22 19		6	5	2	24	23 24 24			14	10
Caprolactam	105-60-2	23 23		8	5	3	23	22 23 23			7	16
Indeno[1,2,3-cd]pyrene	193-39-5	21 21		6	7	1	23	23 23 23			11	12
Dibenzo(a,h)anthracene	53-70-3	21 21		6	7	1	23	23 23 23			11	12
N-Nitroso-di-N-propylamine	621-64-7	22 21		4			23	23 23 23			16	7
Benzidine	92-87-5	22 18		6			23	22 23 23			18	5
Methomyl 16752-77	-5	20	8	2	13	1	22	16 22 22			10	12
Maleic anhydride	108-31-6	21 21		6	4	3	21	18 21 21			18	3
2,4,5-Trichlorophenol	95-95-4	18 17		5			21	20 21 21			14	7
Bis(chloroethyl)ether	111-44-4	18 17		4			20	19 20 20			12	8
Dacthal	1861-32-1	20 15		5			20	19 20 20			14	6
Acenaphthylene	208-96-8	18 18		6			20	20 20 20			15	5
Copper cyanide	544-92-3	20 12		2	5	1	20	12 20 20			17	3
2,6-Dinitrotoluene	606-20-2	19 18		4			20	20 20 20			13	7
1,2,3-Trichloropropane	96-18-4	13 12		4			20	20 20 20			11	9
Zinc phosphide	1314-84-7	18 11		3	4	1	19	10 19 19			11	8
Alachlor	15972-60-8	19 19		5			19	19 19 19			15	4
Benzo[g,h,i]perylene	191-24-2	14 14		5			19	19 19 19			11	8
Aluminum phosphide	20859-73-8	19	5	3	16	1	19	17 19 19			12	7

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NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,1,1,2-Tetrachloroethane	630-20-6	13 12		4	2	2	19	19 19	19 19		10	9
Fluorene	86-73-7	17 17		6			19	19 19	19 19		13	6
Naled	300-76-5	17 11		2	7	2	18	14 18	18 16		13	5
Azobenzene	103-33-3	16 15		4			17	17 17	17 17		10	7
Propargyl alcohol	107-19-7	17 16		5	6	3	17	17 17	17 17		14	3
Dibenzofuran	132-64-9	15 14		8			17	17 17	17 17		6	11
Tebuthiuron	34014-18-1	16 11		5	8	2	17	12 17	17 17		5	12
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17	17 17	17 17		16	1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16	16	4			17	17 17	17 17		16	1
Benefin	1861-40-1	15 13		4			16	16 16	16 16		15	1
Metribuzin	21087-64-9	15 15		4			16	16 16	16 16		11	5
4-Aminopyridine	504-24-5	15 15		2			16	16 16	16 16		14	2
N-Nitrosodimethylamine	62-75-9	15 14		4			16	16 16	16 16		11	5
Phosphine	7803-51-2	16 13		4	8	2	16	8 16	16 16		9	7
Bayleton	43121-43-3	13 12		4			15	15 15	15 15		10	5
Bis(2-chloroisopropyl) ether	108-60-1	14 13		4			14	14 14	14 14		11	3
1-Chlorobutane	109-69-3	14 14		2			14	14 14	14 14		4	10
Bis(2-chloroethoxy)methane	111-91-1	13 12		4			14	14 14	14 14		10	4
3,3-Dimethylbenzidine	119-93-7	13 12		3	1	1	14	13 14	14 14		11	3
Propachlor	1918-16-7	13 11		5			14	13 14	14 14		7	7
Oxadiazon	19666-30-9	11 11		3			14	13 14	14 14		6	8
Pentabromodiphenyl ether	32534-81-9	12	9	4	5	3	14	12 14	14 14		6	8
Iprodione	36734-19-7	9 9		3			14	13 14	14 14		7	7
Potassium silver cyanide	506-61-6	13	12	3	3	2	14	13 14	14 14		9	5
Pydrin	51630-58-1	14 13		4			14	14 14	14 14		14	
Dalapon (sodium salt)	75-99-0	14	14	4			14	14 14	14 14		13	1
Acetophenone	98-86-2	11 11		5			14	14 14	14 14		7	7
Oryzalin 19044-88	-3	13	9	3	5	1	13	13 13	13 13		10	3
Dinoseb	88-85-7	13 13		4			13	13 13	13 13		13	
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13	13 13	13 13		10	3
Chlorobenzilate	510-15-6	12 10		5			12	11 12	12 12		6	6
Ethyl carbamate	51-79-6	12 12		6	2	2	12	12 12	12 12		7	5

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
2,6-Dimethylphenol	576-26-1	12 12		3	2	1	12	11 12	12 12		9	3
Biphenrin	82657-04-3	4 3		2	2	1	12	10 12	12 12			
Pentachloronitrobenzene	82-68-8	12 12		5			12	12 12	12 12		12	
Quinone	106-51-4	10 10		4	3	3	11	11 11	11 11		5	6
Dimethoate	60-51-5	11 10		4			11	11 11	11 11		10	1
Cacodylic acid	75-60-5	9	9	5			11	11 11	11 11		6	5
Arsine	7784-42-1	11 10		3	4	1	11	4 11	11 11		7	4
Picloram	1918-02-1	10 10		3	2	1	10	10 10	10 10		10	
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10 10		3	10	4	10	5 10	10 10		10	
Captan	133-06-2	9 9		4	3	3	10	10 10	10 10		8	2
2-Chloroacetophenone	532-27-4	10 10		6	1	1	10	10 10	10 10		9	1
Metalaxyl	57837-19-1	9 7		2			10	10 10	10 10		6	4
Metolachlor	51218-45-2	9 9		4			9	9 9	9 9		5	4
Zinc cyanide	557-21-1	9 8		2	1	1	9	8 9	9 9		6	3
Aluminum sulfamate	7773-06-0	9 8		3	1	1	9	8 9	9 9		9	
Warfarin	81-81-2	9 6		2			9	9 9	9 9		9	
Chlorpropham	101-21-3	7 7		3			8	8 8	8 8		4	4
p-Chloroaniline	106-47-8	7 6		3			8	8 8	8 8		5	3
Endothall	145-73-3	8 8		2			8	8 8	8 8		6	2
Paraquat	1910-42-5	8 6		3			8	8 8	8 8		6	2
Pronamide	23950-58-5	8 8		4			8	8 8	8 8		7	1
Parathion	56-38-2	8 7		4			8	8 8	8 8		7	1
Fluridone	59756-60-4	7 5		3	4	1	8	7 8	8 8		3	5
2,4-Diaminotoluene	95-80-7	8 8		2			8	8 8	8 8		6	2
Tetrachlorovinphos	961-11-5	8 8		2			8	8 8	8 8		5	3
Benzyl chloride	100-44-7	6	6	5			7	6 7	7 7		4	3
Sodium diethyldithiocarbamate	148-18-5	7 7		3	2	2	7	7 7	7 7		4	3
Vernam	1929-77-7	7 7		4			7	7 7	7 7		5	2
Methyl parathion	298-00-0	7	6	3			7	7 7	7 7		5	2
Strychnine	57-24-9	7 6		1			7	7 7	7 7		7	
Paclobutrazol	76738-62-0	7 7		1			7	6 7	7 7		6	1
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7 7		3			7	7 7	7 7		7	

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,3,5-Trinitrobenzene	99-35-4	6 5		3	3	1	7	7 7 7			5	2
Maneb	12427-38-2	6 6		1			6	6 6 6			6	
Thallic oxide	1314-32-5	5 5		4			6	6 6 6			3	3
Chloramben	133-90-4	6 6		3			6	6 6 6			5	1
Merphos	150-50-5	6 6		2			6	6 6 6			3	3
Benomyl	17804-35-2	6 6		2			6	4 6 6			5	1
Fenamiphos	22224-92-6	6 6 6		3			6	6 6 6			4	2
Cyanogen	460-19-5	5 5		3			6	5 6 6			1	5
Propylene glycol monoethyl ether	52125-53-8	6	6	2	2	1	6	6 6 6			4	2
Barium cyanide	542-62-1	6 1		1	6	1	6	3 6 6			6	
Ethion	563-12-2	6 5		3			6	6 6 6			4	2
2,3,4,6-Tetrachlorophenol	58-90-2	5 5		3			6	6 6 6			3	3
Tralomethrin	66841-25-6	3 3		1	1	1	6	6 6 6				
Ally	74223-64-6	4 3		1	2	1	6	6 6 6			3	3
Ametryn	834-12-8	6 6		5			6	6 6 6			2	4
Rotenone	83-79-4	5 4		2	2	1	6	6 6 6			5	1
Ethyleneimine	151-56-4	5 5		3			5	5 5 5			3	2
Butylate	2008-41-5	5 5		3			5	5 5 5			3	2
Molinate	2212-67-1	5 5		3			5	5 5 5			3	2
Oxamyl	23135-22-0	5 5		3			5	5 5 5			5	
Carboxin	5234-68-4	5 5		2			5	5 5 5			2	3
Nitroguanidine	556-88-7	5 5		3	3	3	5	5 5 5			3	2
Phosmet	732-11-6	5 4		3			5	4 5 5			4	1
Allyl chloride	107-05-1	4 4		2			4	4 4 4			3	1
N-Nitrosodiethanolamine	1116-54-7	4 2		2			4	2 4 2			2	2
Adiponitrile	111-69-3	4 4		3			4	4 4 4			3	1
Carbofuran	1563-66-2	4 4		3			4	4 4 4			4	
Cyanazine	21725-46-2	4 4		3			4	4 4 4				
Tetraethyldithiopyrophosphate	3689-24-5	4 4		3			4	4 4 4			4	
Oxyfluorfen	42874-03-3	3 3		3			4	4 4 4			3	1
Carbonyl sulfide	463-58-1	4 4		2			4	4 4 4			1	3
Vinclozolin	50471-44-8	2 2		1			4	4 4 4			2	2

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Thallium acetate	563-68-8	4		3			4	4	4		3	1
Propiconazole	60207-90-1	0					4	3	4			
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4	4	2			4	4	4		1	3
Pentachlorobenzene	608-93-5	4		4	1	1	4	4	4		3	1
Avermectin B1	65195-55-3	4	4	2			4	4	4		4	
Prometryn	7287-19-6	4		2			4	4	4		2	2
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4	4	4			4	4	4		2	2
Dimethyl sulfate	77-78-1	4		3	2	1	4	4	4		3	1
Methyl chlorocarbonate	79-22-1	4		2	3	1	4	3	4		3	1
Isoxaben	82558-50-7	2		1			4	3	4		2	2
1,2,4,5-Tetrachlorobenzene	95-94-3	4		4	1	1	4	4	4		3	1
Dodine	2439-10-3	3		2			3	2	3		3	
Endosulfan	115-29-7	3		2			3	3	3		3	
Aldicarb	116-06-3	3		3			3	3	3		3	
Zineb	12122-67-7	3		2	2	2	3	3	3		1	2
Propazine	139-40-2	3		2			3	3	3		1	2
Aldicarb sulfone	1646-88-4	3	3	3			3	3	3		3	
Bromoxynil octanoate	1689-99-2	3	3	1			3	3	3		3	
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3	3	2			3	3	3		3	
Norflurazon	27314-13-2	3		2			3	3	3		2	1
Amitraz	33089-61-1	3		2			3	3	3		1	2
Terbacil	5902-51-2	3		3			3	3	3		2	1
Nonabromodiphenyl ether	63936-56-1	3		2			3	3	3		2	1
Sethoxydim	74051-80-2	2		1			3	3	3		1	2
Terbutryn	886-50-0	3		2			3	3	3		1	2
Fonofos	944-22-9	3		3			3	3	3		2	1
3,4-Dimethylphenol	95-65-8	3		1	3	1	3	1	3			
Diphenamid	957-51-7	3		3			3	3	3		1	2
Benzotrichloride	98-07-7	3		2			3	3	3		2	1
1,4-Dibromobenzene	106-37-6	2		1			2	2	2		1	1
Dimethyl terephthalate (DMT)	120-61-6	2	2	1			2	2	2		2	
Methacrylonitrile	126-98-7	2		2			2	2	2		1	1

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Aramite	140-57-8	2		2			2	2	2		2	
Bidrin	141-66-2	2		2			2	2	2		1	1
Nitrate	14797-55-8	1		1			2	2	2			
Napropamide	15299-99-7	2		2			2	2	2		1	1
Nitrapyrin	1929-82-4	2		2	1	1	2	2	2		2	
p,p'-Dibromodiphenyl ether	2050-47-7	2		2			2	2	2		1	1
Octabromodiphenyl ether	32536-52-0	2		1			2	2	2		2	
Calcium cyanide	592-01-8	2		2			2	2	2		2	
1,2,4-Tribromobenzene	615-54-3	2		1			2	2	2		2	
Acifluorfen, sodium	62476-59-9	2		2			2	2	2		2	
Sodium fluoroacetate	62-74-8	1		1			2	2	2		1	1
Chlorsulfuron	64902-72-3	1		1	1	1	2	2	2		1	1
Flutolanil	66332-96-5	1		1			2	2	2			
Fluvalinate	69409-94-5	2		1			2	2	2		2	
Merphos oxide	78-48-8	1	1	1			2	2	2		1	1
Imazaquin 81335-37	-7	0					2	2	2			
N-Nitroso-di-n-butylamine	924-16-3	2		2			2	2	2		2	
N-Nitroso-N-methylethylamine	10595-95-6	1		1			1	1	1		1	
Allyl alcohol	107-18-6	1	1	1			1	1	1		1	
Furan	110-00-9	1		1			1	1	1		1	
1,2-Diphenylhydrazine	122-66-7	1		1			1	1	1		1	
Maleic hydrazide	123-33-1	1		1			1	1	1			
Chlordane (technical)	12789-03-6	1		1			1	1	1		1	
Fluometuron	2164-17-2	1		1			1	1	1		1	
Triallate	2303-17-5	1		1			1	1	1		1	
Thiobencarb	28249-77-6	1		1			1	1	1		1	
Linuron	330-55-2	1		1			1	1	1		1	
Isopropalin	33820-53-0	1		1			1	1	1		1	
t-Butyl chloride	507-20-0	1	1	1			1	1	1			
N-Nitrosodiethylamine	55-18-5	1		1			1	1	1		1	
Diethyl sulfate	64-67-5	1	1	1			1	1	1			
Thallium carbonate	6533-73-9	1	1	1			1	1	1		1	

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Thallium (I) sulfate	7446-18-6	1	1	1			1	1	1		1	
Bromotrichloromethane	75-62-7	1		1			1	1	1			
Thallium chloride	7791-12-0	1		1			1	1	1		1	
Systhane	88671-89-0	0					1	1	1			
N-Nitrosopyrrolidine	930-55-2	1		1			1	1	1		1	
Captafol	2425-06-1											
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Express 101200-4	8-0											
Methamidophos 10265-92	-6											
Monchloramine	10599-90-3											
Chloromethyl methyl ether	107-30-2											
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
2,4-Dichlorophenol	120-83-2											
Propham	122-42-9											
p-Chlorophenyl methyl sulfide	123-09-1											
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Nickel carbonyl	13463-39-3											
Quinalphos 13593-03	-8											
Phenmedipham	13684-63-4											
Diisopropyl methylphosphonate	1445-75-6											
Nitrite	14797-65-0											
Alar 1596-84	-5											
Ethephon	16672-87-0											
Bromoxynil 1689-84	-5											
Isopropyl methyl phosphonic acid	1832-54-8											
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Phosolone 2310-17	-0											
Propargite	2312-35-8											
Thiophanate-methyl	23564-05-8											
Mirex	2385-85-5											
Mepiquat chloride	24307-26-4											

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Pentachlorocyclopentadiene	25329-35-5											
Pirimiphos-methyl	29232-93-7											
Asulam	3337-71-1											
Diazomethane	334-88-3											
Acetochlor	34256-82-1											
Diflubenzuron	35367-38-5											
Imazalil	35554-44-0											
Hexabromodiphenyl ether	36483-60-0											
Fosetyl-al	39148-24-8											
Danitol	39515-41-8											
Tetrabromodiphenyl ether	40088-47-9											
Difenzoquat 43222-48	-6											
Tribromodiphenyl ether	49690-94-0											
Formaldehyde	50-00-0											
Chlorine cyanide	506-77-4											
o-Dinitrobenzene	528-29-0											
Bis(chloromethyl) ether	542-88-1											
Carbosulfan 55285-14	-8											
Dimethipin	55290-64-7											
beta-Propiolactone	57-57-8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											
Tridiphane	58138-08-2											
Vinyl bromide	593-60-2											
Dibromodichloromethane	594-18-3											
1,1,2-Trichloropropane	598-77-6											
Furmecyclox	60568-05-0											
Methyl isocyanate	624-83-9											
Selenourea	630-10-4											
Cyromazine 66215-27	-8											
Prochloraz	67747-09-5											
Cyhalothrin/karate 68085-85	-8											
Haloxypop-methyl	69806-40-2											

TABLE A-3f. HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Propanil	709-98-8											
Fomasafen	72178-02-0											
Apollo	74115-24-5											
Radium 226,228	7440-14-4											
Propyleneimine 75-55-	8											
Glycidaldehyde 765-34	-4											
Assure	76578-14-8											
Glufosinate-ammonium	77182-82-2											
Trichlorocyclopentadiene 77323-84	-3											
Lactofen	77501-63-4											
Fluorine, soluble fluoride	7782-41-4											
Savey	78587-05-0											
Harmony 79277-27	-3											
Demeton	8065-48-3											
Pursuit	81335-77-5											
Triasulfuron	82097-50-5											
Londax	83055-99-6											
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											
Phthalic anhydride	85-44-9											
Nustar	85509-19-9											
Hexachlorobutadiene	87-68-3											
Hexabromobenzene 87-82-	1											
ortho-Anisidine	90-04-0											
Chlorimuron-ethyl	90982-32-4											
p-Chlorophenyl methyl sulfoxide	934-73-6											
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
Methidathion	950-37-8											
p-Chlorophenyl methyl sulfone	98-57-7											

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TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Ethylbenzene 100-41	-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
Methanol 67-56-	1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Nickel 7440-02	-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
Manganese 7439-96	-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Copper 7440-50	-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
n-Butanol 71-36-	3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Dichloromethane 75-09-	2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
1,1,1-Trichloroethane 71-55-	6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
Molybdenum 7439-98	-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31	2791	2673	2791	2791	2774	17
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
Cyclohexanone 108-94	-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Hydroquinone 123-31	-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
Silver 7440-22	-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
n-Heptane 142-82	-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
Styrene 100-42	-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742
Cadmium 7440-43	-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
Ammonia 7664-41	-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
Sodium azide	26628-22-8	776	667	16	83	44	1100	1043	1100	1096	328	772
Cumene 98-82-	8	1481	778	17	1129	49	1632	1041	1632	1631	386	1246
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808	503

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
d-Limonene 5989-27	-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
Antimony 7440-36	-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	1588	974	1588	1584	942	646
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8	874	710	39	258	47	1062	941	1062	1054	493	569
Naphthalene 91-20-	3	1419	718	27	879	77	1635	928	1635	1626	860	775
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Vinyl acetate	108-05-4	740	688	21	114	26	953	897	953	952	480	473
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
Tetrachloroethylene 127-18	-4	853	646	33	251	45	929	796	929	929	624	305
Dichlorodifluoromethane 75-71-	8	936	655	38	391	89	953	758	953	953	854	99
Antimony trioxide	1309-64-4	844	461	34	511	49	906	708	906	904	433	473
Chlorodifluoromethane 75-45-	6	714	514	34	292	60	774	587	774	771	488	286
1,1,1,2-Tetrafluoroethane 811-97	-2	598	353	24	347	52	775	575	775	775	132	643
Vanadium pentoxide	1314-62-1	569	560	26	52	9	587	565	587	587	340	247
2-Ethoxyethanol 110-80	-5	655	475	21	221	47	688	547	688	685	534	154
1,4-Dioxane 123-91	-1	571	469	28	202	63	623	520	623	623	408	215
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600	506	600	596	253	347
Epichlorohydrin 106-89	-8	507	445	16	148	26	559	496	559	558	299	260
Trichlorofluoromethane 75-69-	4	521	427	31	136	48	535	485	535	534	459	76
Trichloroethylene 79-01-	6	486	369	30	178	45	568	476	568	568	294	274
Bisphenol A	80-05-7	405	313	14	191	26	482	405	482	481	166	316
Asbestos 1332-21	-4	470	421	28	212	47	475	365	475	474	417	58
2-Methoxyethanol 109-86	-4	511	273	22	321	43	559	357	559	558	332	227
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5	742	342	742	731	533	209
Beryllium and compounds	7440-41-7	340	296	31	74	24	379	340	379	378	220	159
Ammonium acetate	631-61-8	360	206	9	125	12	368	334	368	367	204	164
Ethylene diamine	107-15-3	342	235	17	166	36	377	320	377	375	170	207
N,N-Dimethylformamide 68-12-	2	283	228	19	120	21	363	297	363	363	196	167

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Acrylamide 79-06-	1	83	80	8	6	4	303	297	303	303	39	264
Acetaldehyde 75-07-	0	183	169	15	51	26	323	280	323	323	49	274
Selenium and compounds	7782-49-2	253	234	31	41	23	296	267	296	296	170	126
1,2-Epoxybutane 106-88	-7	268	203	18	124	26	300	256	300	300	171	129
Carbon tetrachloride	56-23-5	270	240	14	73	18	292	253	292	291	203	89
Acrylonitrile 107-13	-1	239	230	18	37	12	265	246	265	265	131	134
Triethylamine 121-44	-8	436	404	13	299	11	459	243	459	459	190	269
Formic acid	64-18-6	250	188	14	86	20	271	231	271	271	171	100
Propylene oxide	75-56-9	205	191	12	54	23	246	224	246	246	137	109
1,4-Dichlorobenzene 106-46	-7	223	183	16	53	11	246	219	246	245	171	75
Tricresol 1319-77	-3	268	175	22	124	19	272	217	272	272	207	65
Isophorone 78-59-	1	200	167	13	13	7	237	212	237	237	170	67
1,2-Dichlorobenzene 95-50-	1	225	176	17	68	19	249	211	249	249	162	87
Phenylmercuric acetate	62-38-4	239	230	13	42	6	240	200	240	240	222	18
Acrylic acid	79-10-7	199	134	17	99	14	234	191	234	234	99	135
Chlorobenzene 108-90	-7	193	155	17	60	19	213	188	213	213	134	79
1,2-Dichloroethane 107-06	-2	396	165	16	96	11	440	185	440	219	318	122
Chlorothalonil 1897-45	-6	174	162	8	3	1	205	174	205	205	114	91
Chlorpyrifos 2921-88	-2	153	102	7	3	3	166	144	166	166	110	56
Chlorine 7782-50	-5	220	162	18	115	22	241	140	241	241	132	109
Chromium (VI)	18540-29-9	139	136	13	37	11	147	133	147	147	116	31
Cyclohexylamine 108-91	-8	145	111	7	40	5	154	129	154	154	114	40
Potassium cyanide	151-50-8	152	105	9	62	14	161	128	161	161	115	46
Aniline 62-53-3		131	113	14	35	18	140	121	140	140	95	45
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118	116	118	118	107	11
Diphenylamine 122-39	-4	100	89	14	68	26	123	110	123	123	54	69
trans-1,2-Dichloroethylene 156-60	-5	100	77	9	54	5	136	108	136	136	29	107
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2	109	107	109	109	91	18
Pentachlorophenol 87-86-	5	108	96	13	11	4	110	99	110	110	86	24
Baygon 114-26	-1	99	83	7	12	5	106	98	106	106	84	22
Tributyltin oxide	56-35-9	98	91	10	6	6	106	98	106	106	64	42

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Selenious acid	7783-00-8	101	80	6	27	8	110	95	110	110	61	49
2-Methylphenol 95-48-	7	95	88	12	22	8	103	95	103	103	62	41
o-Chlorotoluene 95-49-	8	72	68	11	13	6	94	90	94	94	56	38
Permethrin 52645-53	-1	83	51	8	39	7	103	87	103	103	32	71
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83	80	12	32	15	102	86	102	102	57	45
Resmethrin 10453-86	-8	84	58	5	28	4	86	84	86	86	68	18
Carbaryl 63-25-	2	89	69	6	19	2	93	84	93	93	73	20
Hexachlorobenzene 118-74	-1	85	79	9	5	1	88	83	88	88	66	22
gamma-Hexachlorocyclohexane 58-89-	9	82	73	12	11	4	82	77	82	82	73	9
1,1-Biphenyl 92-52-	4	97	82	15	48	14	98	75	98	98	55	43
Benzaldehyde 100-52	-7	93	78	8	39	4	101	71	101	94	60	41
Thiram 137-26	-8	90	84	12	53	6	93	71	93	93	57	36
Malathion 121-75	-5	74	33	5	40	2	80	70	80	80	59	21
m-Phenylenediamine 108-45	-2	83	68	8	40	7	89	69	89	89	49	40
Pyridine 110-86	-1	76	58	6	20	7	83	68	83	83	58	25
Coke oven emissions	8007-45-2	74	61	9	16	7	77	68	77	77	70	7
Arochlor 1254	11097-69-1	66	55	9	3	2	70	67	70	70	35	35
Bromoform 75-25-	2	53	50	6	3	2	68	67	68	68	35	33
Methyl acrylate	96-33-3	83	56	4	78	1	102	67	102	102	1	101
Folpet 133-07	-3	64	60	6	8	6	68	65	68	68	31	37
Methoxychlor 72-43-	5	62	62	7	1	1	63	63	63	63	58	5
1,3-Dichlorobenzene 541-73	-1	52	49	6	3	3	62	61	62	62	38	24
Bromomethane 74-83-	9	53	46	7	3	2	63	61	63	63	45	18
Furfural 98-01-	1	61	60	10			61	61	61	61	45	16
Ethyl chloride	75-00-3	54	49	9	6	4	64	60	64	64	43	21
Ethylene thiourea	96-45-7	57	54	8	20	8	65	58	65	65	49	16
Sodium cyanide	143-33-9	88	42	5	53	5	90	57	90	90	63	27
Dicamba 1918-00	-9	50	45	5	1	1	58	57	58	58	44	14
Endrin 72-20-	8	58	56	7			58	57	58	57	46	12
Trichloroacetic acid	76-03-9	55	48	6	15	6	62	57	62	62	30	32
Tetraethyl lead	78-00-2	97	42	3	56	4	99	57	99	99	89	10

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1,2,4-Trichlorobenzene 120-82	-1	48	46	7	3	3	56	56	56	56	35	21
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112	54	6			114	56	114	57	94	20
N,N-Dimethylaniline 121-69	-7	65	44	5	30	4	68	55	68	68	36	32
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55	55	55	55	44	11
Diuron 330-54	-1	65	39	9	34	8	72	54	72	71	39	33
Heptachlor	76-44-8	54	53	7			54	54	54	54	45	9
Diethyl phthalate	84-66-2	51	45	16	14	10	56	53	56	56	34	22
Hydrazine/hydrazine sulfate	302-01-2	66	40	5	40	10	69	51	69	69	53	16
Amdro 67485-29	-4	64	32	2	35	4	77	51	77	75	32	45
Uranium, natural	7440-61-1	58	47	7	37	10	59	51	59	59	49	10
Bromochloromethane 74-97-	5	47	40	10	5	5	55	50	55	55	33	22
Bromodichloromethane 75-27-	4	41	38	5	2	1	50	50	50	50	31	19
1,2-Dichloropropane	78-87-5	40	37	5			51	50	51	51	32	19
p-Nitrophenol 100-02	-7	54	48	8	6	2	55	49	55	55	42	13
1,1,2-Trichloroethane 79-00-	5	39	36	6	2	2	51	49	51	51	31	20
Dibromochloromethane 124-48	-1	38	35	5	3	2	48	48	48	48	30	18
Pentafluoroethane 354-33	-6	56	40	3	31	2	86	47	86	86	8	78
Cyanide, free	57-12-5	46	42	7	9	6	48	47	48	48	37	11
Decabromodiphenyl ether (DBDPE)	1163-19-5	51	32	11	27	5	56	46	56	56	21	35
2,4,6-Trinitrotoluene 118-96	-7	36	29	5			51	46	51	51	35	16
Heptachlor epoxide	1024-57-3	45	44	6			45	45	45	45	38	7
Triethylene glycol monobutyl ether	143-22-6	48	30	4	22	1	60	45	60	60	17	43
Dieldrin	60-57-1	45	44	7			45	45	45	45	36	9
Mercuric chloride	7487-94-7	43	30	5	22	7	50	44	50	50	31	19
1,1-Dichloroethane	75-34-3	33	30	5			45	44	45	45	23	22
Aldrin	309-00-2	44	43	7			44	43	44	44	34	10
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	27	25	6	9	4	46	42	46	46	18	28
Dichlorvos 62-73-	7	48	31	4	15	3	49	42	49	49	37	12
1,1,2,2-Tetrachloroethane 79-34-	5	32	29	4	1	1	43	42	43	43	26	17
di(2-ethylhexyl)Adipate 103-23	-1	46	42	16	18	5	50	41	50	50	30	20
2,4-Dinitrotoluene 121-14	-2	39	38	6	2	1	43	41	43	43	27	16

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Arochlor 1016	12674-11-2	37	33	5	1	1	41	41	41 41		14	27
Benzo [a] pyrene	50-32-8	38	36	7	7	1	41	41	41 41		22	19
3-Methylphenol 108-39	-4	40	39	8	9	6	43	40	43 43		31	12
2-Nitropropane 79-46-	9	43	38	7	13	7	43	40	43 43		35	8
Simazine	122-34-9	43	34	4			46	38	46 46		32	14
Baythroid 68359-37	-5	32	12	1	20	2	50	38	50 50		11	39
Anthracene 120-12	-7	36	32	9	5	2	38	37	38 38		22	16
Atrazine 1912-24	-9	34	32	5			37	37	37 37		27	10
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37	36	7			37	37	37 37		29	8
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	35	34	7	1	1	37	37	37 37		25	12
Acenaphthene	83-32-9	35	34	7			37	37	37 37		28	9
4-Methylphenol 106-44	-5	36	34	9	7	5	39	36	39 39		26	13
Hexachloroethane 67-72-	1	38	36	7	1	1	39	36	39 39		31	8
Nitrobenzene 98-95-	3	36	30	5	6	1	37	36	37 37		28	9
Nitric Oxide	10102-43-9	27	26	9	2	2	43	34	43 43		10	33
Dimethylamine 124-40	-3	33	30	7	7	3	38	34	38 38		24	14
Chrysene 218-01	-9	32	31	7	7	1	34	34	34 34		21	13
2-Chlorophenol	95-57-8	34	33	6			36	34	36 36		27	9
2,4,6-Trichlorophenol 88-06-	2	34	33	7	1	1	35	33	35 35		21	14
Pendimethalin	40487-42-1	27	27	4			32	32	32 32		15	17
Benzo(a)anthracene 56-55-	3	31	27	9	12	3	33	32	33 33		14	19
Carbon disulfide	75-15-0	37	29	6	6	1	40	32	40 40		24	16
Phenanthrene 85-01-	8	34	32	9	5	1	36	32	36 36		21	15
Fluoranthene 206-44	-0	30	30	6	8	2	32	31	32 32		26	6
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31	30	6			31	31	31 31		25	6
Hydrogen cyanide	74-90-8	29	29	12	2	2	32	31	32 32		20	12
Pyrene	129-00-0	28	28	7			30	30	30 30		22	8
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30	29	6			30	30	30 30		24	6
2,4-Dinitrophenol 51-28-	5	30	28	9	5	4	34	30	34 34		18	16
1,2-Dibromo-3-chloropropane 96-12-	8	23	22	5	1	1	30	30	30 30		20	10
beta-Hexachlorocyclohexane 319-85	-7	29	28	6			29	29	29 29		23	6

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N-Nitrosodiphenylamine 86-30-	6	27	26	5	11	1	29	29	29	29	23	6
Glyphosate 1071-83	-6	31	23	4	14	2	33	27	33	32	25	8
cis-1,2-Dichloroethylene 156-59	-2	18	17	4	1	1	27	27	27	27	14	13
Acephate 30560-19	-1	25	23	4	5	2	30	27	30	30	20	10
Selenium sulfide	7446-34-6	27	27	1			27	27	27	27	27	
Trifluralin 1582-09	-8	25	23	5			27	26	27	27	19	8
Thallium nitrate	10102-45-1	22	22	5	1	1	27	25	27	27	9	18
Prometon 1610-18	-0	26	20	5	5	1	28	25	28	28	19	9
Benzo(b)fluoranthene 205-99	-2	23	23	6	7	1	25	25	25	25	13	12
Disulfoton	298-04-4	25	25	4			25	25	25	25	21	4
Benzo(k)fluoranthene 207-08	-9	22	22	7	7	1	24	24	24	24	11	13
Toxaphene 8001-35	-2	24	22	6	2	1	24	24	24	24	20	4
2,4-Dimethylphenol 105-67	-9	24	23	7	4	3	26	23	26	26	16	10
Indeno[1,2,3-cd]pyrene 193-39	-5	21	21	6	7	1	23	23	23	23	11	12
Dibenzo(a,h)anthracene 53-70-	3	21	21	6	7	1	23	23	23	23	11	12
N-Nitroso-di-N-propylamine	621-64-7	22	21	4			23	23	23	23	16	7
beta-Chloronaphthalene 91-58-	7	22	19	6	5	2	24	23	24	24	14	10
Caprolactam 105-60	-2	23	23	8	5	3	23	22	23	23	7	16
Creosote 8001-58	-9	31	22	9	12	5	32	22	32	32	25	7
Diquat 85-00-	7	31	20	4	15	2	32	22	32	32	22	10
Benzidine 92-87-	5	22	18	6			23	22	23	23	18	5
Acenaphthylene 208-96	-8	18	18	6			20	20	20	20	15	5
2,6-Dinitrotoluene 606-20	-2	19	18	4			20	20	20	20	13	7
2,4,5-Trichlorophenol 95-95-	4	18	17	5			21	20	21	21	14	7
1,2,3-Trichloropropane 96-18-	4	13	12	4			20	20	20	20	11	9
Bis(chloroethyl)ether 111-44	-4	18	17	4			20	19	20	20	12	8
Alachlor	15972-60-8	19	19	5			19	19	19	19	15	4
Dacthal 1861-32	-1	20	15	5			20	19	20	20	14	6
Benzo[g,h,i]perylene	191-24-2	14	14	5			19	19	19	19	11	8
1,1,1,2-Tetrachloroethane 630-20	-6	13	12	4	2	2	19	19	19	19	10	9
Fluorene 86-73-	7	17	17	6			19	19	19	19	13	6

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Maleic anhydride	108-31-6	21	21	6	4	3	21	18	21	21	18	3
Azobenzene	103-33-3	16	15	4			17	17	17	17	10	7
Propargyl alcohol	107-19-7	17	16	5	6	3	17	17	17	17	14	3
Dibenzofuran	132-64-9	15	14	8			17	17	17	17	6	11
Aluminum phosphide	20859-73-8	19	5	3	16	1	19	17	19	19	12	7
Hexazinone 51235-04	-2	28	16	3	8	1	29	17	29	29	20	9
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17	17	17	17	16	1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16	16	4			17	17	17	17	16	1
Methomyl 16752-77	-5	20	8	2	13	1	22	16	22	22	10	12
Benefin	1861-40-1	15	13	4			16	16	16	16	15	1
Metribuzin 21087-64	-9	15	15	4			16	16	16	16	11	5
4-Aminopyridine 504-24	-5	15	15	2			16	16	16	16	14	2
Silver cyanide	506-64-9	29	12	2	12	3	29	16	29	29	24	5
Cypermethrin 52315-07	-8	21	12	1	13	2	26	16	26	26	9	17
N-Nitrosodimethylamine	62-75-9	15	14	4			16	16	16	16	11	5
Bayleton	43121-43-3	13	12	4			15	15	15	15	10	5
Bis(2-chloroisopropyl) ether	108-60-1	14	13	4			14	14	14	14	11	3
1-Chlorobutane	109-69-3	14	14	2			14	14	14	14	4	10
Bis(2-chloroethoxy)methane	111-91-1	13	12	4			14	14	14	14	10	4
Naled 300-76	-5	17	11	2	7	2	18	14	18	16	13	5
Pydrin	51630-58-1	14	13	4			14	14	14	14	14	
Dalapon (sodium salt)	75-99-0	14	14	4			14	14	14	14	13	1
Acetophenone 98-86-	2	11	11	5			14	14	14	14	7	7
3,3-Dimethylbenzidine 119-93	-7	13	12	3	1	1	14	13	14	14	11	3
Oryzalin 19044-88	-3	13	9	3	5	1	13	13	13	13	10	3
Propachlor 1918-16	-7	13	11	5			14	13	14	14	7	7
Oxadiazon 19666-30	-9	11	11	3			14	13	14	14	6	8
Iprodione	36734-19-7	9	9	3			14	13	14	14	7	7
Potassium silver cyanide	506-61-6	13	12	3	3	2	14	13	14	14	9	5
Hexachlorophene 70-30-	4	24	19	6	12	5	24	13	24	24	23	1
Dinoseb 88-85-	7	13	13	4			13	13	13	13	13	

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13	13	13	13	10	3
Pentabromodiphenyl ether	32534-81-9	12	9	4	5	3	14	12	14	14	6	8
Tebuthiuron 34014-18	-1	16	11	5	8	2	17	12	17	17	5	12
Ethyl carbamate	51-79-6	12	12	6	2	2	12	12	12	12	7	5
Copper cyanide	544-92-3	20	12	2	5	1	20	12	20	20	17	3
Pentachloronitrobenzene	82-68-8	12	12	5			12	12	12	12	12	
Quinone 106-51	-4	10	10	4	3	3	11	11	11	11	5	6
Chlorobenzilate 510-15	-6	12	10	5			12	11	12	12	6	6
2,6-Dimethylphenol 576-26	-1	12	12	3	2	1	12	11	12	12	9	3
Dimethoate 60-51-	5	11	10	4			11	11	11	11	10	1
Cacodylic acid	75-60-5	9	9	5			11	11	11	11	6	5
Picloram 1918-02	-1	10	10	3	2	1	10	10	10	10	10	
Zinc phosphide	1314-84-7	18	11	3	4	1	19	10	19	19	11	8
Captan 133-06	-2	9	9	4	3	3	10	10	10	10	8	2
2-Chloroacetophenone 532-27	-4	10	10	6	1	1	10	10	10	10	9	1
Metalaxyl 57837-19	-1	9	7	2			10	10	10	10	6	4
Biphenethrin 82657-04	-3	4	3	2	2	1	12	10	12	12		
Metolachlor 51218-45	-2	9	9	4			9	9	9	9	5	4
Warfarin 81-81-	2	9	6	2			9	9	9	9	9	
Chlorpropham 101-21	-3	7	7	3			8	8	8	8	4	4
p-Chloroaniline	106-47-8	7	6	3			8	8	8	8	5	3
Endothall 145-73	-3	8	8	2			8	8	8	8	6	2
Paraquat 1910-42	-5	8	6	3			8	8	8	8	6	2
Pronamide	23950-58-5	8	8	4			8	8	8	8	7	1
Zinc cyanide	557-21-1	9	8	2	1	1	9	8	9	9	6	3
Parathion	56-38-2	8	7	4			8	8	8	8	7	1
Aluminum sulfamate	7773-06-0	9	8	3	1	1	9	8	9	9	9	
Phosphine 7803-51	-2	16	13	4	8	2	16	8	16	16	9	7
2,4-Diaminotoluene	95-80-7	8	8	2			8	8	8	8	6	2
Tetrachlorovinphos	961-11-5	8	8	2			8	8	8	8	5	3
Sodium diethyldithiocarbamate	148-18-5	7	7	3	2	2	7	7	7	7	4	3

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Vernam 1929-77	-7	7	7	4			7	7	7		5	2
Methyl parathion	298-00-0	7	6	3			7	7	7		5	2
Strychnine	57-24-9	7	6	1			7	7	7		7	
Fluridone 59756-60	-4	7	5	3	4	1	8	7	8		3	5
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7	7	3			7	7	7		7	
1,3,5-Trinitrobenzene 99-35-	4	6	5	3	3	1	7	7	7		5	2
Benzyl chloride	100-44-7	6	6	5			7	6	7		4	3
Maneb 12427-38	-2	6	6	1			6	6	6		6	
Thallic oxide	1314-32-5	5	5	4			6	6	6		3	3
Chloramben 133-90	-4	6	6	3			6	6	6		5	1
Merphos 150-50	-5	6	6	2			6	6	6		3	3
Fenamiphos 22224-92	-6	6	6	3			6	6	6		4	2
Propylene glycol monoethyl ether	52125-53-8	6	6	2	2	1	6	6	6		4	2
Ethion	563-12-2	6	5	3			6	6	6		4	2
2,3,4,6-Tetrachlorophenol 58-90-	2	5	5	3			6	6	6		3	3
Tralomethrin 66841-25	-6	3	3	1	1	1	6	6	6			
Ally 74223-64	-6	4	3	1	2	1	6	6	6		3	3
Paclobutrazol 76738-62	-0	7	7	1			7	6	7		6	1
Ametryn	834-12-8	6	6	5			6	6	6		2	4
Rotenone 83-79-	4	5	4	2	2	1	6	6	6		5	1
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10	10	3	10	4	10	5	10	10	10	
Ethyleneimine 151-56	-4	5	5	3			5	5	5		3	2
Butylate 2008-41	-5	5	5	3			5	5	5		3	2
Molinate 2212-67	-1	5	5	3			5	5	5		3	2
Oxamyl 23135-22	-0	5	5	3			5	5	5		5	
Cyanogen	460-19-5	5	5	3			6	5	6		1	5
Carboxin 5234-68	-4	5	5	2			5	5	5		2	3
Nitroguanidine 556-88	-7	5	5	3	3	3	5	5	5		3	2
Allyl chloride	107-05-1	4	4	2			4	4	4		3	1
Adiponitrile	111-69-3	4	4	3			4	4	4		3	1
Carbofuran	1563-66-2	4	4	3			4	4	4		4	

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Benomyl 17804-35	-2	6	6	2			6	4	6		5	1
Cyanazine 21725-46	-2	4	4	3			4	4	4			
Tetraethyldithiopyrophosphate	3689-24-5	4	4	3			4	4	4		4	
Oxyfluorfen	42874-03-3	3	3	3			4	4	4		3	1
Carbonyl sulfide	463-58-1	4	4	2			4	4	4		1	3
Vinclozolin 50471-44	-8	2	2	1			4	4	4		2	2
Thallium acetate	563-68-8	4	4	3			4	4	4		3	1
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4	4	2			4	4	4		1	3
Pentachlorobenzene 608-93	-5	4	4	4	1	1	4	4	4		3	1
Avermectin B1	65195-55-3	4	4	2			4	4	4		4	
Prometryn 7287-19	-6	4	4	2			4	4	4		2	2
Phosmet	732-11-6	5	4	3			5	4	5		4	1
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4	4	4			4	4	4		2	2
Dimethyl sulfate	77-78-1	4	4	3	2	1	4	4	4		3	1
Arsine 7784-42	-1	11	10	3	4	1	11	4	11	11	7	4
1,2,4,5-Tetrachlorobenzene 95-94-	3	4	4	4	1	1	4	4	4		3	1
Endosulfan 115-29	-7	3	3	2			3	3	3		3	
Aldicarb	116-06-3	3	3	3			3	3	3		3	
Zineb 12122-67	-7	3	3	2	2	2	3	3	3		1	2
Propazine	139-40-2	3	3	2			3	3	3		1	2
Aldicarb sulfone	1646-88-4	3	3	3			3	3	3		3	
Bromoxynil octanoate	1689-99-2	3	3	1			3	3	3		3	
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3	3	2			3	3	3		3	
Norflurazon 27314-13	-2	3	3	2			3	3	3		2	1
Amitraz	33089-61-1	3	3	2			3	3	3		1	2
Barium cyanide	542-62-1	6	1	1	6	1	6	3	6		6	
Terbacil	5902-51-2	3	3	3			3	3	3		2	1
Propiconazole	60207-90-1	0					4	3	4			
Nonabromodiphenyl ether	63936-56-1	3	3	2			3	3	3		2	1
Sethoxydim 74051-80	-2	2	1	1			3	3	3		1	2
Methyl chlorocarbonate	79-22-1	4	2	2	3	1	4	3	4		3	1

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Isoxaben 82558-50	-7	2	2	1			4	3	4		2	2
Terbutryn 886-50	-0	3	3	2			3	3	3		1	2
Fonofos 944-22	-9	3	3	3			3	3	3		2	1
Diphenamid 957-51	-7	3	3	3			3	3	3		1	2
Benzotrithloride	98-07-7	3	3	2			3	3	3		2	1
Dodine 2439-10	-3	3	2	2			3	2	3		3	
1,4-Dibromobenzene	106-37-6	2	2	1			2	2	2		1	1
N-Nitrosodiethanolamine 1116-54	-7	4	2	2			4	2	4		2	2
Dimethyl terephthalate (DMT)	120-61-6	2	2	1			2	2	2		2	
Methacrylonitrile	126-98-7	2	2	2			2	2	2		1	1
Aramite 140-57	-8	2	2	2			2	2	2		2	
Bidrin 141-66	-2	2	2	2			2	2	2		1	1
Nitrate 14797-55	-8	1	1	1			2	2	2			
Napropamide 15299-99	-7	2	2	2			2	2	2		1	1
Nitrapyrin 1929-82	-4	2	2	2	1	1	2	2	2		2	
p,p'-Dibromodiphenyl ether	2050-47-7	2	2	2			2	2	2		1	1
Octabromodiphenyl ether	32536-52-0	2	2	1			2	2	2		2	
Calcium cyanide	592-01-8	2	2	2			2	2	2		2	
1,2,4-Tribromobenzene 615-54	-3	2	2	1			2	2	2		2	
Acifluorfen, sodium	62476-59-9	2	2	2			2	2	2		2	
Sodium fluoroacetate	62-74-8	1	1	1			2	2	2		1	1
Chlorsulfuron 64902-72	-3	1	1	1	1	1	2	2	2		1	1
Flutolanil 66332-96	-5	1	1	1			2	2	2			
Fluvalinate 69409-94	-5	2	2	1			2	2	2		2	
Merphos oxide	78-48-8	1	1	1			2	2	2		1	1
Imazaquin	81335-37-7	0					2	2	2			
N-Nitroso-di-n-butylamine 924-16	-3	2	2	2			2	2	2		2	
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1			1	1	1		1	
Allyl alcohol	107-18-6	1	1	1			1	1	1		1	
Furan	110-00-9	1	1	1			1	1	1		1	
1,2-Diphenylhydrazine	122-66-7	1	1	1			1	1	1		1	

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Maleic hydrazide	123-33-1	1	1	1			1	1	1			
Chlordane (technical)	12789-03-6	1	1	1			1	1	1		1	
Fluometuron	2164-17-2	1	1	1			1	1	1		1	
Triallate 2303-17	-5	1	1	1			1	1	1		1	
Thiobencarb 28249-77	-6	1	1	1			1	1	1		1	
Linuron	330-55-2	1	1	1			1	1	1		1	
Isopropalin	33820-53-0	1	1	1			1	1	1		1	
t-Butyl chloride	507-20-0	1	1	1			1	1	1			
N-Nitrosodiethylamine	55-18-5	1	1	1			1	1	1		1	
Diethyl sulfate	64-67-5	1	1	1			1	1	1			
Thallium carbonate	6533-73-9	1	1	1			1	1	1		1	
Thallium (I) sulfate	7446-18-6	1	1	1			1	1	1		1	
Bromotrichloromethane	75-62-7	1	1	1			1	1	1			
Thallium chloride	7791-12-0	1	1	1			1	1	1		1	
Systhane 88671-89	-0	0					1	1	1			
N-Nitrosopyrrolidine	930-55-2	1	1	1			1	1	1		1	
3,4-Dimethylphenol 95-65-	8	3	2	1	3	1	3	1	3	3		
Captafol	2425-06-1											
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Express 101200-4	8-0											
Methamidophos 10265-92	-6											
Monchloramine	10599-90-3											
Chloromethyl methyl ether	107-30-2											
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
2,4-Dichlorophenol	120-83-2											
Propham	122-42-9											
p-Chlorophenyl methyl sulfide	123-09-1											
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Nickel carbonyl	13463-39-3											
Quinalphos 13593-03	-8											

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Phenmedipham	13684-63-4											
Diisopropyl methylphosphonate	1445-75-6											
Nitrite	14797-65-0											
Alar 1596-84	-5											
Ethephon	16672-87-0											
Bromoxynil 1689-84	-5											
Isopropyl methyl phosphonic acid	1832-54-8											
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Phosolone 2310-17	-0											
Propargite	2312-35-8											
Thiophanate-methyl	23564-05-8											
Mirex	2385-85-5											
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene	25329-35-5											
Pirimiphos-methyl	29232-93-7											
Asulam	3337-71-1											
Diazomethane	334-88-3											
Acetochlor	34256-82-1											
Diflubenzuron	35367-38-5											
Imazalil	35554-44-0											
Hexabromodiphenyl ether	36483-60-0											
Fosetyl-al	39148-24-8											
Danitol	39515-41-8											
Tetrabromodiphenyl ether	40088-47-9											
Difenzoquat	43222-48-6											
Tribromodiphenyl ether	49690-94-0											
Formaldehyde	50-00-0											
Chlorine cyanide	506-77-4											
o-Dinitrobenzene	528-29-0											
Bis(chloromethyl) ether	542-88-1											
Carbosulfan 55285-14	-8											

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Dimethipin	55290-64-7											
beta-Propiolactone	57-57-8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											
Tridiphane	58138-08-2											
Vinyl bromide	593-60-2											
Dibromodichloromethane	594-18-3											
1,1,2-Trichloropropane	598-77-6											
Furmecyclox	60568-05-0											
Methyl isocyanate	624-83-9											
Selenourea	630-10-4											
Cyromazine 66215-27	-8											
Prochloraz	67747-09-5											
Cyhalothrin/karate 68085-85	-8											
Haloxypop-methyl	69806-40-2											
Propanil	709-98-8											
Fomasafen	72178-02-0											
Apollo	74115-24-5											
Radium 226,228	7440-14-4											
Propyleneimine 75-55-	8											
Glycidaldehyde 765-34	-4											
Assure	76578-14-8											
Glufosinate-ammonium	77182-82-2											
Trichlorocyclopentadiene 77323-84	-3											
Lactofen	77501-63-4											
Fluorine, soluble fluoride	7782-41-4											
Savey	78587-05-0											
Harmony 79277-27	-3											
Demeton	8065-48-3											
Pursuit	81335-77-5											
Triasulfuron	82097-50-5											
Londax	83055-99-6											

TABLE A-3g. Unique HMIRS Product Identities: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Product Identities (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											
Phthalic anhydride	85-44-9											
Nustar	85509-19-9											
Hexachlorobutadiene	87-68-3											
Hexabromobenzene 87-82-	1											
ortho-Anisidine	90-04-0											
Chlorimuron-ethyl	90982-32-4											
p-Chlorophenyl methyl sulfoxide	934-73-6											
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
Methidathion	950-37-8											
p-Chlorophenyl methyl sulfone	98-57-7											

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Document Group Numbers (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylbenzene	100-41-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Nickel	7440-02-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
Methanol	67-56-1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Manganese	7439-96-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Copper	7440-50-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
n-Butanol	71-36-3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Dichloromethane	75-09-2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
1,1,1-Trichloroethane	71-55-6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Molybdenum	7439-98-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Cyclohexanone	108-94-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31	2791	2673	2791	2791	2774	17
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
Silver	7440-22-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Hydroquinone	123-31-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
n-Heptane	142-82-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Antimony	7440-36-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
Cadmium	7440-43-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
Styrene	100-42-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742
Naphthalene	91-20-3	1419	718	27	879	77	1635	928	1635	1626	860	775
Cumene	98-82-8	1481	778	17	1129	49	1632	1041	1632	1631	386	1246

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	588	974	1588	1584	942	646
d-Limonene	5989-27-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
Ammonia	7664-41-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808	503
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
Sodium azide	26628-22-8	776	667	16	83	44	1100	1043	1100	1096	328	772
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8	874	710	39	258	47	1062	941	1062	1054	493	569
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Vinyl acetate	108-05-4	740	688	21	114	26	953	897	953	952	480	473
Dichlorodifluoromethane	75-71-8	936	655	38	391	89	953	758	953	953	854	99
Tetrachloroethylene	127-18-4	853	646	33	251	45	929	796	929	929	624	305
Antimony trioxide	1309-64-4	844	461	34	511	49	906	708	906	904	433	473
1,1,1,2-Tetrafluoroethane	811-97-2	598	353	24	347	52	775	575	775	775	132	643
Chlorodifluoromethane	75-45-6	714	514	34	292	60	774	587	774	771	488	286
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5	742	342	742	731	533	209
2-Ethoxyethanol	110-80-5	655	475	21	221	47	688	547	688	685	534	154
1,4-Dioxane	123-91-1	571	469	28	202	63	623	520	623	623	408	215
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600	506	600	596	253	347
Vanadium pentoxide	1314-62-1	569	560	26	52	9	587	565	587	587	340	247
Trichloroethylene	79-01-6	486	369	30	178	45	568	476	568	568	294	274
Epichlorohydrin	106-89-8	507	445	16	148	26	559	496	559	558	299	260
2-Methoxyethanol	109-86-4	511	273	22	321	43	559	357	559	558	332	227
Trichlorofluoromethane	75-69-4	521	427	31	136	48	535	485	535	534	459	76
Bisphenol A	80-05-7	405	313	14	191	26	482	405	482	481	166	316
Asbestos	1332-21-4	470	421	28	212	47	475	365	475	474	417	58
Triethylamine	121-44-8	436	404	13	299	11	459	243	459	459	190	269
1,2-Dichloroethane	107-06-2	396	165	16	96	11	440	185	440	219	318	122
Beryllium and compounds	7440-41-7	340	296	31	74	24	379	340	379	378	220	159
Ethylene diamine	107-15-3	342	235	17	166	36	377	320	377	375	170	207

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS
Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ammonium acetate	631-61-8	360	206	9	125	12	368	334	368	367	204	164
N,N-Dimethylformamide	68-12-2	283	228	19	120	21	363	297	363	363	196	167
Acetaldehyde	75-07-0	183	169	15	51	26	323	280	323	323	49	274
Acrylamide 79-06-	1	83	80	8	6	4	303	297	303	303	39	264
1,2-Epoxybutane	106-88-7	268	203	18	124	26	300	256	300	300	171	129
Selenium and compounds	7782-49-2	253	234	31	41	23	296	267	296	296	170	126
Carbon tetrachloride	56-23-5	270	240	14	73	18	292	253	292	291	203	89
Tricresol	1319-77-3	268	175	22	124	19	272	217	272	272	207	65
Formic acid	64-18-6	250	188	14	86	20	271	231	271	271	171	100
Acrylonitrile	107-13-1	239	230	18	37	12	265	246	265	265	131	134
1,2-Dichlorobenzene	95-50-1	225	176	17	68	19	249	211	249	249	162	87
1,4-Dichlorobenzene	106-46-7	223	183	16	53	11	246	219	246	245	171	75
Propylene oxide	75-56-9	205	191	12	54	23	246	224	246	246	137	109
Chlorine	7782-50-5	220	162	18	115	22	241	140	241	241	132	109
Phenylmercuric acetate	62-38-4	239	230	13	42	6	240	200	240	240	222	18
Isophorone	78-59-1	200	167	13	13	7	237	212	237	237	170	67
Acrylic acid	79-10-7	199	134	17	99	14	234	191	234	234	99	135
Chlorobenzene	108-90-7	193	155	17	60	19	213	188	213	213	134	79
Chlorothalonil	1897-45-6	174	162	8	3	1	205	174	205	205	114	91
Chlorpyrifos	2921-88-2	153	102	7	3	3	166	144	166	166	110	56
Potassium cyanide	151-50-8	152	105	9	62	14	161	128	161	161	115	46
Cyclohexylamine	108-91-8	145	111	7	40	5	154	129	154	154	114	40
Chromium (VI)	18540-29-9	139	136	13	37	11	147	133	147	147	116	31
Aniline	62-53-3	131	113	14	35	18	140	121	140	140	95	45
trans-1,2-Dichloroethylene 156-60	-5	100	77	9	54	5	136	108	136	136	29	107
Diphenylamine	122-39-4	100	89	14	68	26	123	110	123	123	54	69
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118	116	118	118	107	11
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112	54	6			114	56	114	57	94	20
Selenious acid	7783-00-8	101	80	6	27	8	110	95	110	110	61	49
Pentachlorophenol	87-86-5	108	96	13	11	4	110	99	110	110	86	24
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2	109	107	109	109	91	18

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Baygon	114-26-1	99 83		7	12	5	106 98		106	106 84		22
Tributyltin oxide	56-35-9	98 91 10			6	6	106 98		106	106 64		42
Permethrin	52645-53-1	83 51		8	39	7	103 87		103	103 32		71
2-Methylphenol	95-48-7	95 88 12			22	8	103 95		103	103 62		41
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83 80 12			32	15	102 86		102	102 57		45
Methyl acrylate	96-33-3	83 56		4	78	1	102 67		102	102 1		101
Benzaldehyde	100-52-7	93 78		8	39	4	101 71		101	94 60		41
Tetraethyl lead	78-00-2	97 42		3	56	4	99 57		99	99 89		10
1,1-Biphenyl	92-52-4	97 82 15			48	14	98 75		98	98 35		43
o-Chlorotoluene	95-49-8	72 68 11			13	6	94 90		94	94 56		38
Thiram	137-26-8	90 84 12			53	6	93 71		93	93 57		36
Carbaryl	63-25-2	89 69		6	19	2	93 84		93	93 73		20
Sodium cyanide	143-33-9	88 42		5	53	5	90 57		90	90 63		27
m-Phenylenediamine	108-45-2	83 68		8	40	7	89 69		89	89 49		40
Hexachlorobenzene	118-74-1	85 79		9	5	1	88 83		88	88 66		22
Resmethrin	10453-86-8	84 58		5	28	4	86 84		86	86 68		18
Pentafluoroethane	354-33-6	56 40		3	31	2	86 47		86	86 8		78
Pyridine	110-86-1	76 58		6	20	7	83 68		83	83 58		25
gamma-Hexachlorocyclohexane	58-89-9	82 73 12			11	4	82 77		82	82 73		9
Malathion	121-75-5	74 33		5	40	2	80 70		80	80 59		21
Amdro	67485-29-4	64 32		2	35	4	77 51		77	75 32		45
Coke oven emissions	8007-45-2	74	61	9	16	7	77	68	77	77 70		7
Diuron	330-54-1	65 39		9	34	8	72 54		72	71 39		33
Arochlor 1254	11097-69-1	66 55		9	3	2	70 67		70	70 35		35
Hydrazine/hydrazine sulfate	302-01-2	66 40		5	40	10	69 51		69	69 53		16
N,N-Dimethylaniline	121-69-7	65 44		5	30	4	68 55		68	68 36		32
Folpet	133-07-3	64 60		6	8	6	68 65		68	68 31		37
Bromoform	75-25-2	53 50		6	3	2	68 67		68	68 35		33
Ethylene thiourea	96-45-7	57 54		8	20	8	65 58		65	65 49		16
Ethyl chloride	75-00-3	54 49		9	6	4	64 60		64	64 43		21
Methoxychlor	72-43-5	62 62		7	1	1	63 63		63	63 58		5

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Bromomethane	74-83-9	53 46		7	3	2	63 61		63	63 45		18
1,3-Dichlorobenzene	541-73-1	52 49		6	3	3	62 61		62	62 38		24
Trichloroacetic acid	76-03-9	55 48		6	15	6	62 57		62	62 30		32
Furfural	98-01-1	61 60 10					61 61		61	61 45		16
Triethylene glycol monobutyl ether	143-22-6	48	30	4	22	1	60	45	60	60 17		43
Uranium, natural	7440-61-1	58 47		7	37	10	59 51		59	59 49		10
Dicamba	1918-00-9	50 45		5	1	1	58 57		58	58 44		14
Endrin	72-20-8	58 56		7			58 57		58	57 46		12
Decabromodiphenyl ether (DBDPE)	1163-19-5	51 32 11			27	5	56 46		56	56 21		35
1,2,4-Trichlorobenzene	120-82-1	48 46		7	3	3	56 56		56	56 35		21
Diethyl phthalate	84-66-2	51 45 16			14	10	56 53		56	56 34		22
p-Nitrophenol	100-02-7	54 48		8	6	2	55 49		55	55 42		13
Bromochloromethane	74-97-5	47 40 10			5	5	55 50		55	55 33		22
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55	55	55	55 44		11
Heptachlor	76-44-8	54 53		7			54 54		54	54 45		9
2,4,6-Trinitrotoluene	118-96-7	36 29		5			51 46		51	51 35		16
1,2-Dichloropropane	78-87-5	40 37		5			51 50		51	51 32		19
1,1,2-Trichloroethane	79-00-5	39 36		6	2	2	51 49		51	51 31		20
di(2-ethylhexyl)Adipate	103-23-1	46 42 16			18	5	50 41		50	50 30		20
Baythroid	68359-37-5	32 12		1	20	2	50 38		50	50 11		39
Mercuric chloride	7487-94-7	43 30		5	22	7	50 44		50	50 31		19
Bromodichloromethane	75-27-4	41 38		5	2	1	50 50		50	50 31		19
Dichlorvos	62-73-7	48 31		4	15	3	49 42		49	49 37		12
Dibromochloromethane	124-48-1	38 35		5	3	2	48 48		48	48 30		18
Cyanide, free	57-12-5	46 42		7	9	6	48 47		48	48 37		11
Simazine	122-34-9	43	34	4			46	38	46	46 32		14
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	27 25		6	9	4	46 42		46	46 18		28
Heptachlor epoxide	1024-57-3	45	44	6			45	45	45	45 38		7
Dieldrin	60-57-1	45	44	7			45	45	45	45 36		9
1,1-Dichloroethane	75-34-3	33 30		5			45 44		45	45 23		22
Aldrin	309-00-2	44 43		7			44 43		44	44 34		10

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Nitric Oxide	10102-43-9	27	26	9	2	2	43	34	43	43	10	33
3-Methylphenol	108-39-4	40	39	8	9	6	43	40	43	43	31	12
2,4-Dinitrotoluene	121-14-2	39	38	6	2	1	43	41	43	43	27	16
1,1,2,2-Tetrachloroethane	79-34-5	32	29	4	1	1	43	42	43	43	26	17
2-Nitropropane	79-46-9	43	38	7	13	7	43	40	43	43	35	8
Arochlor 1016	12674-11-2	37	33	5	1	1	41	41	41	41	14	27
Benzo [a] pyrene	50-32-8	38	36	7	7	1	41	41	41	41	22	19
Carbon disulfide	75-15-0	37	29	6	6	1	40	32	40	40	24	16
4-Methylphenol	106-44-5	36	34	9	7	5	39	36	39	39	26	13
Hexachloroethane	67-72-1	38	36	7	1	1	39	36	39	39	31	8
Anthracene	120-12-7	36	32	9	5	2	38	37	38	38	22	16
Dimethylamine	124-40-3	33	30	7	7	3	38	34	38	38	24	14
Atrazine	1912-24-9	34	32	5			37	37	37	37	27	10
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37	36	7			37	37	37	37	29	8
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	35	34	7	1	1	37	37	37	37	25	12
Acenaphthene	83-32-9	35	34	7			37	37	37	37	28	9
Nitrobenzene	98-95-3	36	30	5	6	1	37	36	37	37	28	9
Phenanthrene	85-01-8	34	32	9	5	1	36	32	36	36	21	15
2-Chlorophenol	95-57-8	34	33	6			36	34	36	36	27	9
2,4,6-Trichlorophenol	88-06-2	34	33	7	1	1	35	33	35	35	21	14
Chrysene	218-01-9	32	31	7	7	1	34	34	34	34	21	13
2,4-Dinitrophenol	51-28-5	30	28	9	5	4	34	30	34	34	18	16
Glyphosate	1071-83-6	31	23	4	14	2	33	27	33	32	25	8
Benzo(a)anthracene	56-55-3	31	27	9	12	3	33	32	33	33	14	19
Fluoranthene	206-44-0	30	30	6	8	2	32	31	32	32	26	6
Pendimethalin	40487-42-1	27	27	4			32	32	32	32	15	17
Hydrogen cyanide	74-90-8	29	29	12	2	2	32	31	32	32	20	12
Creosote	8001-58-9	31	22	9	12	5	32	22	32	32	25	7
Diquat	85-00-7	31	20	4	15	2	32	22	32	32	22	10
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31	30	6			31	31	31	31	25	6
Pyrene	129-00-0	28	28	7			30	30	30	30	22	8

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Acephate	30560-19-1	25	23	4	5	2	30	27	30	30	20	10
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30	29	6			30	30	30	30	24	6
1,2-Dibromo-3-chloropropane	96-12-8	23	22	5	1	1	30	30	30	30	20	10
beta-Hexachlorocyclohexane	319-85-7	29	28	6			29	29	29	29	23	6
Silver cyanide	506-64-9	29	12	2	12	3	29	16	29	29	24	5
Hexazinone	51235-04-2	28	16	3	8	1	29	17	29	29	20	9
N-Nitrosodiphenylamine	86-30-6	27	26	5	11	1	29	29	29	29	23	6
Prometon	1610-18-0	26	20	5	5	1	28	25	28	28	19	9
Thallium nitrate	10102-45-1	22	22	5	1	1	27	25	27	27	9	18
cis-1,2-Dichloroethylene	156-59-2	18	17	4	1	1	27	27	27	27	14	13
Trifluralin	1582-09-8	25	23	5			27	26	27	27	19	8
Selenium sulfide	7446-34-6	27	27	1			27	27	27	27	27	
2,4-Dimethylphenol	105-67-9	24	23	7	4	3	26	23	26	26	16	10
Cypermethrin	52315-07-8	21	12	1	13	2	26	16	26	26	9	17
Benzo(b)fluoranthene	205-99-2	23	23	6	7	1	25	25	25	25	13	12
Disulfoton	298-04-4	25	25	4			25	25	25	25	21	4
Benzo(k)fluoranthene	207-08-9	22	22	7	7	1	24	24	24	24	11	13
Hexachlorophene	70-30-4	24	19	6	12	5	24	13	24	24	23	1
Toxaphene	8001-35-2	24	22	6	2	1	24	24	24	24	20	4
beta-Chloronaphthalene	91-58-7	22	19	6	5	2	24	23	24	24	14	10
Caprolactam	105-60-2	23	23	8	5	3	23	22	23	23	7	16
Indeno[1,2,3-cd]pyrene	193-39-5	21	21	6	7	1	23	23	23	23	11	12
Dibenzo(a,h)anthracene	53-70-3	21	21	6	7	1	23	23	23	23	11	12
N-Nitroso-di-N-propylamine	621-64-7	22	21	4			23	23	23	23	16	7
Benzidine	92-87-5	22	18	6			23	22	23	23	18	5
Methomyl	16752-77-5	20	8	2	13	1	22	16	22	22	10	12
Maleic anhydride	108-31-6	21	21	6	4	3	21	18	21	21	18	3
2,4,5-Trichlorophenol	95-95-4	18	17	5			21	20	21	21	14	7
Bis(chloroethyl)ether	111-44-4	18	17	4			20	19	20	20	12	8
Dacthal	1861-32-1	20	15	5			20	19	20	20	14	6
Acenaphthylene	208-96-8	18	18	6			20	20	20	20	15	5

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Copper cyanide	544-92-3	20	12	2	5	1	20	12	20	20	17	3
2,6-Dinitrotoluene	606-20-2	19	18	4			20	20	20	20	13	7
1,2,3-Trichloropropane	96-18-4	13	12	4			20	20	20	20	11	9
Zinc phosphide	1314-84-7	18	11	3	4	1	19	10	19	19	11	8
Alachlor	15972-60-8	19	19	5			19	19	19	19	15	4
Benzo[g,h,i]perylene	191-24-2	14	14	5			19	19	19	19	11	8
Aluminum phosphide	20859-73-8	19	5	3	16	1	19	17	19	19	12	7
1,1,1,2-Tetrachloroethane	630-20-6	13	12	4	2	2	19	19	19	19	10	9
Fluorene	86-73-7	17	17	6			19	19	19	19	13	6
Naled	300-76-5	17	11	2	7	2	18	14	18	16	13	5
Azobenzene	103-33-3	16	15	4			17	17	17	17	10	7
Propargyl alcohol	107-19-7	17	16	5	6	3	17	17	17	17	14	3
Dibenzofuran	132-64-9	15	14	8			17	17	17	17	6	11
Tebuthiuron	34014-18-1	16	11	5	8	2	17	12	17	17	5	12
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17	17	17	17	16	1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16	16	4			17	17	17	17	16	1
Benefin	1861-40-1	15	13	4			16	16	16	16	15	1
Metribuzin	21087-64-9	15	15	4			16	16	16	16	11	5
4-Aminopyridine	504-24-5	15	15	2			16	16	16	16	14	2
N-Nitrosodimethylamine	62-75-9	15	14	4			16	16	16	16	11	5
Phosphine	7803-51-2	16	13	4	8	2	16	8	16	16	9	7
Bayleton	43121-43-3	13	12	4			15	15	15	15	10	5
Bis(2-chloroisopropyl) ether	108-60-1	14	13	4			14	14	14	14	11	3
1-Chlorobutane	109-69-3	14	14	2			14	14	14	14	4	10
Bis(2-chloroethoxy)methane	111-91-1	13	12	4			14	14	14	14	10	4
3,3-Dimethylbenzidine	119-93-7	13	12	3	1	1	14	13	14	14	11	3
Propachlor	1918-16-7	13	11	5			14	13	14	14	7	7
Oxadiazon	19666-30-9	11	11	3			14	13	14	14	6	8
Pentabromodiphenyl ether	32534-81-9	12	9	4	5	3	14	12	14	14	6	8
Iprodione	36734-19-7	9	9	3			14	13	14	14	7	7
Potassium silver cyanide	506-61-6	13	12	3	3	2	14	13	14	14	9	5

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS
Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Pydrin	51630-58-1	14	13	4			14	14	14	14	14	
Dalapon (sodium salt)	75-99-0	14	14	4			14	14	14	14	13	1
Acetophenone	98-86-2	11	11	5			14	14	14	14	7	7
Oryzalin	19044-88-3	13	9	3	5	1	13	13	13	13	10	3
Dinoseb	88-85-7	13	13	4			13	13	13	13	13	
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13	13	13	13	10	3
Chlorobenzilate	510-15-6	12	10	5			12	11	12	12	6	6
Ethyl carbamate	51-79-6	12	12	6	2	2	12	12	12	12	7	5
2,6-Dimethylphenol	576-26-1	12	12	3	2	1	12	11	12	12	9	3
Biphenethrin	82657-04-3	4	3	2	2	1	12	10	12	12		
Pentachloronitrobenzene	82-68-8	12	12	5			12	12	12	12	12	
Quinone	106-51-4	10	10	4	3	3	11	11	11	11	5	6
Dimethoate	60-51-5	11	10	4			11	11	11	11	10	1
Cacodylic acid	75-60-5	9	9	5			11	11	11	11	6	5
Arsine	7784-42-1	11	10	3	4	1	11	4	11	11	7	4
Picloram	1918-02-1	10	10	3	2	1	10	10	10	10	10	
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10	10	3	10	4	10	5	10	10	10	
Captan	133-06-2	9	9	4	3	3	10	10	10	10	8	2
2-Chloroacetophenone	532-27-4	10	10	6	1	1	10	10	10	10	9	1
Metalaxyl	57837-19-1	9	7	2			10	10	10	10	6	4
Metolachlor	51218-45-2	9	9	4			9	9	9	9	5	4
Zinc cyanide	557-21-1	9	8	2	1	1	9	8	9	9	6	3
Aluminum sulfamate	7773-06-0	9	8	3	1	1	9	8	9	9	9	
Warfarin	81-81-2	9	6	2			9	9	9	9	9	
Chlorpropham	101-21-3	7	7	3			8	8	8	8	4	4
p-Chloroaniline	106-47-8	7	6	3			8	8	8	8	5	3
Endothall	145-73-3	8	8	2			8	8	8	8	6	2
Paraquat	1910-42-5	8	6	3			8	8	8	8	6	2
Pronamide	23950-58-5	8	8	4			8	8	8	8	7	1
Parathion	56-38-2	8	7	4			8	8	8	8	7	1
Fluridone	59756-60-4	7	5	3	4	1	8	7	8	8	3	5

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS
Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
2,4-Diaminotoluene	95-80-7	8 8 2					8 8		8	8 6		2
Tetrachlorovinphos	961-11-5	8 8 2					8 8		8	8 5		3
Benzyl chloride	100-44-7	6	6	5			7	6	7	7 4		3
Sodium diethyldithiocarbamate	148-18-5	7 7 3			2	2	7 7		7	7 4		3
Vernam	1929-77-7	7 7 4					7 7		7	7 5		2
Methyl parathion	298-00-0	7	6	3			7	7	7	7 5		2
Strychnine	57-24-9	7 6 1					7 7		7	7 7		
Paclobutrazol	76738-62-0	7 7 1					7 6		7	7 6		1
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7 7 3					7 7		7	7 7		
1,3,5-Trinitrobenzene	99-35-4	6 5 3			3	1	7 7		7	7 5		2
Maneb	12427-38-2	6 6 1					6 6		6	6 6		
Thallic oxide	1314-32-5	5 5 4					6 6		6	6 3		3
Chloramben	133-90-4	6 6 3					6 6		6	6 5		1
Merphos	150-50-5	6 6 2					6 6		6	6 3		3
Benomyl	17804-35-2	6 6 2					6 4		6	6 5		1
Fenamiphos	22224-92-6	6 6 3					6 6		6	6 4		2
Cyanogen	460-19-5	5 5 3					6 5		6	6 1		5
Propylene glycol monoethyl ether	52125-53-8	6 6 2			2	1	6 6		6	6 4		2
Barium cyanide	542-62-1	6 1 1			6	1	6 3		6	6 6		
Ethion	563-12-2	6 5 3					6 6		6	6 4		2
2,3,4,6-Tetrachlorophenol	58-90-2	5 5 3					6 6		6	6 3		3
Tralomethrin	66841-25-6	3 3 1			1	1	6 6		6	6		
Ally	74223-64-6	4 3 1			2	1	6 6		6	6 3		3
Ametryn	834-12-8	6 6 5					6 6		6	6 2		4
Rotenone	83-79-4	5 4 2			2	1	6 6		6	6 5		1
Ethyleneimine	151-56-4	5 5 3					5 5		5	5 3		2
Butylate	2008-41-5	5 5 3					5 5		5	5 3		2
Molinate	2212-67-1	5 5 3					5 5		5	5 3		2
Oxamyl	23135-22-0	5 5 3					5 5		5	5 5		
Carboxin	5234-68-4	5 5 2					5 5		5	5 2		3
Nitroguanidine	556-88-7	5 5 3			3	3	5 5		5	5 3		2

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS
Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Phosmet	732-11-6	5 4 3					5 4		5	5 4		1
Allyl chloride	107-05-1	4 4 2					4 4		4	4 3		1
N-Nitrosodiethanolamine	1116-54-7	4 2 2					4 2		4	2 2		2
Adiponitrile	111-69-3	4 4 3					4 4		4	4 3		1
Carbofuran	1563-66-2	4 4 3					4 4		4	4 4		
Cyanazine	21725-46-2	4 4 3					4 4		4	4		
Tetraethyldithiopyrophosphate	3689-24-5	4 4 3					4 4		4	4 4		
Oxyfluorfen	42874-03-3	3 3 3					4 4		4	4 3		1
Carbonyl sulfide	463-58-1	4 4 2					4 4		4	4 1		3
Vinclozolin	50471-44-8	2 2 1					4 4		4	4 2		2
Thallium acetate	563-68-8	4 4 3					4 4		4	4 3		1
Propiconazole	60207-90-1	0					4	3	4	4		
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4	4	2			4	4	4	4 1		3
Pentachlorobenzene	608-93-5	4 4 4			1	1	4 4		4	4 3		1
Avermectin B1	65195-55-3	4	4	2			4	4	4	4 4		
Prometryn	7287-19-6	4 4 2					4 4		4	4 2		2
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4 4 4					4 4		4	4 2		2
Dimethyl sulfate	77-78-1	4 4 3			2	1	4 4		4	4 3		1
Methyl chlorocarbonate	79-22-1	4 2 2			3	1	4 3		4	4 3		1
Isoxaben	82558-50-7	2 2 1					4 3		4	4 2		2
1,2,4,5-Tetrachlorobenzene	95-94-3	4 4 4			1	1	4 4		4	4 3		1
Dodine	2439-10-3	3 2 2					3 2		3	3 3		
Endosulfan	115-29-7	3 3 2					3 3		3	3 3		
Aldicarb	116-06-3	3 3 3					3 3		3	3 3		
Zineb	12122-67-7	3 3 2			2	2	3 3		3	3 1		2
Propazine	139-40-2	3 3 2					3 3		3	3 1		2
Aldicarb sulfone	1646-88-4	3	3	3			3	3	3	3 3		
Bromoxynil octanoate	1689-99-2	3	3	1			3	3	3	3 3		
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3 3 2					3 3		3	3 3		
Norflurazon	27314-13-2	3 3 2					3 3		3	3 2		1
Amitraz	33089-61-1	3 3 2					3 3		3	3 1		2

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS
Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Terbacil	5902-51-2	3 3 3					3 3		3	3 2		1
Nonabromodiphenyl ether	63936-56-1	3 3 2					3 3		3	3 2		1
Sethoxydim	74051-80-2	2 1 1					3 3		3	3 1		2
Terbutryn	886-50-0	3 3 2					3 3		3	3 1		2
Fonofos	944-22-9	3 3 3					3 3		3	3 2		1
3,4-Dimethylphenol	95-65-8	3 2 1			3	1	3 1		3	3		
Diphenamid	957-51-7	3 3 3					3 3		3	3 1		2
Benzotrichloride	98-07-7	3 3 2					3 3		3	3 2		1
1,4-Dibromobenzene	106-37-6	2 2 1					2 2		2	2 1		1
Dimethyl terephthalate (DMT)	120-61-6	2	2	1			2	2	2	2 2		
Methacrylonitrile	126-98-7	2 2 2					2 2		2	2 1		1
Aramite	140-57-8	2 2 2					2 2		2	2 2		
Bidrin	141-66-2	2 2 2					2 2		2	2 1		1
Nitrate	14797-55-8	1 1 1					2 2		2	2		
Napropamide	15299-99-7	2 2 2					2 2		2	2 1		1
Nitrapyrin	1929-82-4	2 2 2			1	1	2 2		2	2 2		
p,p'-Dibromodiphenyl ether	2050-47-7	2 2 2					2 2		2	2 1		1
Octabromodiphenyl ether	32536-52-0	2 2 1					2 2		2	2 2		
Calcium cyanide	592-01-8	2 2 2					2 2		2	2 2		
1,2,4-Tribromobenzene	615-54-3	2 2 1					2 2		2	2 2		
Acifluorfen, sodium	62476-59-9	2 2 2					2 2		2	2 2		
Sodium fluoroacetate	62-74-8	1 1 1					2 2		2	2 1		1
Chlorsulfuron	64902-72-3	1 1 1			1	1	2 2		2	2 1		1
Flutolanil	66332-96-5	1 1 1					2 2		2	2		
Fluvalinate	69409-94-5	2 2 1					2 2		2	2 2		
Merphos oxide	78-48-8	1	1	1			2	2	2	2 1		1
Imazaquin 81335-37	-7	0					2	2	2	2		
N-Nitroso-di-n-butylamine	924-16-3	2 2 2					2 2		2	2 2		
N-Nitroso-N-methylethylamine	10595-95-6	1 1 1					1 1		1	1 1		
Allyl alcohol	107-18-6	1	1	1			1	1	1	1 1		
Furan	110-00-9	1 1 1					1 1		1	1 1		

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,2-Diphenylhydrazine	122-66-7	1	1				1		1	1		
Maleic hydrazide	123-33-1	1	1				1		1	1		
Chlordane (technical)	12789-03-6	1	1				1		1	1		
Fluometuron	2164-17-2	1	1				1		1	1		
Triallate	2303-17-5	1	1				1		1	1		
Thiobencarb	28249-77-6	1	1				1		1	1		
Linuron	330-55-2	1	1				1		1	1		
Isopropalin	33820-53-0	1	1				1		1	1		
t-Butyl chloride	507-20-0	1	1	1			1	1	1	1		
N-Nitrosodiethylamine	55-18-5	1	1				1		1	1		
Diethyl sulfate	64-67-5	1	1	1			1	1	1	1		
Thallium carbonate	6533-73-9	1	1	1			1	1	1	1		
Thallium (I) sulfate	7446-18-6	1	1	1			1	1	1	1		
Bromotrichloromethane	75-62-7	1	1				1		1	1		
Thallium chloride	7791-12-0	1	1				1		1	1		
Systhane	88671-89-0	0					1	1	1	1		
N-Nitrosopyrrolidine	930-55-2	1	1				1		1	1		
Captafol	2425-06-1											
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Express 101200-4	8-0											
Methamidophos 10265-92	-6											
Monchloramine	10599-90-3											
Chloromethyl methyl ether	107-30-2											
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
2,4-Dichlorophenol	120-83-2											
Propham	122-42-9											
p-Chlorophenyl methyl sulfide	123-09-1											
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Nickel carbonyl	13463-39-3											
Quinalphos 13593-03	-8											

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS
Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Phenmedipham	13684-63-4											
Diisopropyl methylphosphonate	1445-75-6											
Nitrite	14797-65-0											
Alar 1596-84	-5											
Ethephon	16672-87-0											
Bromoxynil 1689-84	-5											
Isopropyl methyl phosphonic acid	1832-54-8											
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Phosolone 2310-17	-0											
Propargite	2312-35-8											
Thiophanate-methyl	23564-05-8											
Mirex	2385-85-5											
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene	25329-35-5											
Pirimiphos-methyl	29232-93-7											
Asulam	3337-71-1											
Diazomethane	334-88-3											
Acetochlor	34256-82-1											
Diflubenzuron	35367-38-5											
Imazalil	35554-44-0											
Hexabromodiphenyl ether	36483-60-0											
Fosetyl-al	39148-24-8											
Danitol	39515-41-8											
Tetrabromodiphenyl ether	40088-47-9											
Difenzoquat	43222-48-6											
Tribromodiphenyl ether	49690-94-0											
Formaldehyde	50-00-0											
Chlorine cyanide	506-77-4											
o-Dinitrobenzene	528-29-0											
Bis(chloromethyl) ether	542-88-1											
Carbosulfan 55285-14	-8											

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Dimethipin	55290-64-7											
beta-Propiolactone	57-57-8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											
Tridiphane	58138-08-2											
Vinyl bromide	593-60-2											
Dibromodichloromethane	594-18-3											
1,1,2-Trichloropropane	598-77-6											
Furmecyclox	60568-05-0											
Methyl isocyanate	624-83-9											
Selenourea	630-10-4											
Cyromazine 66215-27	-8											
Prochloraz	67747-09-5											
Cyhalothrin/karate 68085-85	-8											
Haloxypop-methyl	69806-40-2											
Propanil	709-98-8											
Fomasafen	72178-02-0											
Apollo	74115-24-5											
Radium 226,228	7440-14-4											
Propyleneimine 75-55-	8											
Glycidaldehyde 765-34	-4											
Assure	76578-14-8											
Glufosinate-ammonium	77182-82-2											
Trichlorocyclopentadiene 77323-84	-3											
Lactofen	77501-63-4											
Fluorine, soluble fluoride	7782-41-4											
Savey	78587-05-0											
Harmony 79277-27	-3											
Demeton	8065-48-3											
Pursuit	81335-77-5											
Triasulfuron	82097-50-5											
Londax	83055-99-6											

TABLE A-3h. HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS
Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											
Phthalic anhydride	85-44-9											
Nustar	85509-19-9											
Hexachlorobutadiene	87-68-3											
Hexabromobenzene 87-82-	1											
ortho-Anisidine	90-04-0											
Chlorimuron-ethyl	90982-32-4											
p-Chlorophenyl methyl sulfoxide	934-73-6											
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
Methidathion	950-37-8											
p-Chlorophenyl methyl sulfone	98-57-7											

TABLE A-3i. Unique HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Document Group Numbers (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylbenzene	100-41-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Nickel	7440-02-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
Methanol	67-56-1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Manganese	7439-96-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Copper	7440-50-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
n-Butanol	71-36-3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Dichloromethane	75-09-2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
1,1,1-Trichloroethane	71-55-6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Molybdenum	7439-98-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Cyclohexanone	108-94-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31	2791	2673	2791	2791	2774	17
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
Silver	7440-22-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Hydroquinone	123-31-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
n-Heptane	142-82-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Antimony	7440-36-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
Cadmium	7440-43-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
Styrene	100-42-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742
Cumene	98-82-8	1481	778	17	1129	49	1632	1041	1632	1631	386	1246
Naphthalene	91-20-3	1419	718	27	879	77	1635	928	1635	1626	860	775

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Mercury, elemental	7439-97-6	1521	1134	38	1065	55	588	974	1588	1584	942	646
d-Limonene	5989-27-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
Ammonia	7664-41-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808	503
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
Sodium azide	26628-22-8	776	667	16	83	44	1100	1043	1100	1096	328	772
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8	874	710	39	258	47	1062	941	1062	1054	493	569
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Dichlorodifluoromethane	75-71-8	936	655	38	391	89	953	758	953	953	854	99
Vinyl acetate	108-05-4	740	688	21	114	26	953	897	953	952	480	473
Tetrachloroethylene	127-18-4	853	646	33	251	45	929	796	929	929	624	305
Antimony trioxide	1309-64-4	844	461	34	511	49	906	708	906	904	433	473
1,1,1,2-Tetrafluoroethane	811-97-2	598	353	24	347	52	775	575	775	775	132	643
Chlorodifluoromethane	75-45-6	714	514	34	292	60	774	587	774	771	488	286
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5	742	342	742	731	533	209
2-Ethoxyethanol	110-80-5	655	475	21	221	47	688	547	688	685	534	154
1,4-Dioxane	123-91-1	571	469	28	202	63	623	520	623	623	408	215
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600	506	600	596	253	347
Vanadium pentoxide	1314-62-1	569	560	26	52	9	587	565	587	587	340	247
Trichloroethylene	79-01-6	486	369	30	178	45	568	476	568	568	294	274
Epichlorohydrin	106-89-8	507	445	16	148	26	559	496	559	558	299	260
2-Methoxyethanol	109-86-4	511	273	22	321	43	559	357	559	558	332	227
Trichlorofluoromethane	75-69-4	521	427	31	136	48	535	485	535	534	459	76
Bisphenol A	80-05-7	405	313	14	191	26	482	405	482	481	166	316
Asbestos	1332-21-4	470	421	28	212	47	475	365	475	474	417	58
Triethylamine	121-44-8	436	404	13	299	11	459	243	459	459	190	269
Beryllium and compounds	7440-41-7	340	296	31	74	24	379	340	379	378	220	159
Ethylene diamine	107-15-3	342	235	17	166	36	377	320	377	375	170	207
Ammonium acetate	631-61-8	360	206	9	125	12	368	334	368	367	204	164

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N,N-Dimethylformamide	68-12-2	283	228	19	120	21	363	297	363	363	196	167
Acetaldehyde	75-07-0	183	169	15	51	26	323	280	323	323	49	274
Acrylamide 79-06-	1	83	80	8	6	4	303	297	303	303	39	264
1,2-Epoxybutane	106-88-7	268	203	18	124	26	300	256	300	300	171	129
Selenium and compounds	7782-49-2	253	234	31	41	23	296	267	296	296	170	126
Carbon tetrachloride	56-23-5	270	240	14	73	18	292	253	292	291	203	89
Tricresol	1319-77-3	268	175	22	124	19	272	217	272	272	207	65
Formic acid	64-18-6	250	188	14	86	20	271	231	271	271	171	100
Acrylonitrile	107-13-1	239	230	18	37	12	265	246	265	265	131	134
1,2-Dichlorobenzene	95-50-1	225	176	17	68	19	249	211	249	249	162	87
Propylene oxide	75-56-9	205	191	12	54	23	246	224	246	246	137	109
1,4-Dichlorobenzene	106-46-7	223	183	16	53	11	246	219	246	245	171	75
Chlorine	7782-50-5	220	162	18	115	22	241	140	241	241	132	109
Phenylmercuric acetate	62-38-4	239	230	13	42	6	240	200	240	240	222	18
Isophorone	78-59-1	200	167	13	13	7	237	212	237	237	170	67
Acrylic acid	79-10-7	199	134	17	99	14	234	191	234	234	99	135
1,2-Dichloroethane	107-06-2	396	165	16	96	11	440	185	440	219	318	122
Chlorobenzene	108-90-7	193	155	17	60	19	213	188	213	213	134	79
Chlorothalonil	1897-45-6	174	162	8	3	1	205	174	205	205	114	91
Chlorpyrifos	2921-88-2	153	102	7	3	3	166	144	166	166	110	56
Potassium cyanide	151-50-8	152	105	9	62	14	161	128	161	161	115	46
Cyclohexylamine	108-91-8	145	111	7	40	5	154	129	154	154	114	40
Chromium (VI)	18540-29-9	139	136	13	37	11	147	133	147	147	116	31
Aniline	62-53-3	131	113	14	35	18	140	121	140	140	95	45
trans-1,2-Dichloroethylene 156-60	-5	100	77	9	54	5	136	108	136	136	29	107
Diphenylamine	122-39-4	100	89 14		68	26	123	110	123	123	54	69
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118	116	118	118	107	11
Selenious acid	7783-00-8	101	80	6	27	8	110	95	110	110	61	49
Pentachlorophenol	87-86-5	108	96 13		11	4	110	99	110	110	86	24
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2	109	107	109	109	91	18
Baygon	114-26-1	99	83	7	12	5	106	98	106	106	84	22

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Tributyltin oxide	56-35-9	98 91	10		6	6	106 98		106	106	64 42	
Permethrin	52645-53-1	83 51		8	39	7	103 87		103	103	32 71	
2-Methylphenol	95-48-7	95 88	12		22	8	103 95		103	103	62 41	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83 80	12		32	15	102 86		102	102	57 45	
Methyl acrylate	96-33-3	83 56		4	78	1	102 67		102	102	1 101	
Tetraethyl lead	78-00-2	97 42		3	56	4	99 57		99	99	89 10	
1,1-Biphenyl	92-52-4	97 82	15		48	14	98 75		98	98	55 43	
Benzaldehyde	100-52-7	93 78		8	39	4	101 71		101	94	60 41	
o-Chlorotoluene	95-49-8	72 68	11		13	6	94 90		94	94	56 38	
Thiram	137-26-8	90 84	12		53	6	93 71		93	93	57 36	
Carbaryl	63-25-2	89 69		6	19	2	93 84		93	93	73 20	
Sodium cyanide	143-33-9	88 42		5	53	5	90 57		90	90	63 27	
m-Phenylenediamine	108-45-2	83 68		8	40	7	89 69		89	89	49 40	
Hexachlorobenzene	118-74-1	85 79		9	5	1	88 83		88	88	66 22	
Resmethrin	10453-86-8	84 58		5	28	4	86 84		86	86	68 18	
Pentafluoroethane	354-33-6	56 40		3	31	2	86 47		86	86	8 78	
Pyridine	110-86-1	76 58		6	20	7	83 68		83	83	58 25	
gamma-Hexachlorocyclohexane	58-89-9	82 73	12		11	4	82 77		82	82	73 9	
Malathion	121-75-5	74 33		5	40	2	80 70		80	80	59 21	
Coke oven emissions	8007-45-2	74	61	9	16	7	77	68	77	77	70 7	
Amdro	67485-29-4	64 32		2	35	4	77 51		77	75	32 45	
Diuron	330-54-1	65 39		9	34	8	72 54		72	71	39 33	
Arochlor 1254	11097-69-1	66 55		9	3	2	70 67		70	70	35 35	
Hydrazine/hydrazine sulfate	302-01-2	66 40		5	40	10	69 51		69	69	53 16	
N,N-Dimethylaniline	121-69-7	65 44		5	30	4	68 55		68	68	36 32	
Folpet	133-07-3	64 60		6	8	6	68 65		68	68	31 37	
Bromoform	75-25-2	53 50		6	3	2	68 67		68	68	35 33	
Ethylene thiourea	96-45-7	57 54		8	20	8	65 58		65	65	49 16	
Ethyl chloride	75-00-3	54 49		9	6	4	64 60		64	64	43 21	
Methoxychlor	72-43-5	62 62		7	1	1	63 63		63	63	58 5	
Bromomethane	74-83-9	53 46		7	3	2	63 61		63	63	45 18	

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1,3-Dichlorobenzene	541-73-1	52 49		6	3	3	62 61		62	62	38 24	
Trichloroacetic acid	76-03-9	55 48		6	15	6	62 57		62	62	30 32	
Furfural	98-01-1	61 60 10					61 61		61	61	45 16	
Triethylene glycol monobutyl ether	143-22-6	48	30	4	22	1	60	45	60	60	17 43	
Uranium, natural	7440-61-1	58 47		7	37	10	59 51		59	59	49 10	
Dicamba	1918-00-9	50 45		5	1	1	58 57		58	58	44 14	
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112 54		6			114 56		114	57	94 20	
Endrin	72-20-8	58 56		7			58 57		58	57	46 12	
Decabromodiphenyl ether (DBDPE)	1163-19-5	51 32 11			27	5	56 46		56	56	21 35	
1,2,4-Trichlorobenzene	120-82-1	48 46		7	3	3	56 56		56	56	35 21	
Diethyl phthalate	84-66-2	51 45 16			14	10	56 53		56	56	34 22	
p-Nitrophenol	100-02-7	54 48		8	6	2	55 49		55	55	42 13	
Bromochloromethane	74-97-5	47 40 10			5	5	55 50		55	55	33 22	
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55	55	55	55	44 11	
Heptachlor	76-44-8	54 53		7			54 54		54	54	45 9	
2,4,6-Trinitrotoluene	118-96-7	36 29		5			51 46		51	51	35 16	
1,2-Dichloropropane	78-87-5	40 37		5			51 50		51	51	32 19	
1,1,2-Trichloroethane	79-00-5	39 36		6	2	2	51 49		51	51	31 20	
di(2-ethylhexyl)Adipate	103-23-1	46 42 16			18	5	50 41		50	50	30 20	
Baythroid	68359-37-5	32 12		1	20	2	50 38		50	50	11 39	
Mercuric chloride	7487-94-7	43 30		5	22	7	50 44		50	50	31 19	
Bromodichloromethane	75-27-4	41 38		5	2	1	50 50		50	50	31 19	
Dichlorvos	62-73-7	48 31		4	15	3	49 42		49	49	37 12	
Dibromochloromethane	124-48-1	38 35		5	3	2	48 48		48	48	30 18	
Cyanide, free	57-12-5	46 42		7	9	6	48 47		48	48	37 11	
Simazine	122-34-9	43	34	4			46	38	46	46	32 14	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	27 25		6	9	4	46 42		46	46	18 28	
Heptachlor epoxide	1024-57-3	45	44	6			45	45	45	45	38 7	
Dieldrin	60-57-1	45	44	7			45	45	45	45	36 9	
1,1-Dichloroethane	75-34-3	33 30		5			45 44		45	45	23 22	
Aldrin	309-00-2	44 43		7			44 43		44	44	34 10	

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Nitric Oxide	10102-43-9	27	26	9	2	2	43	34	43	43	10	33
3-Methylphenol	108-39-4	40	39	8	9	6	43	40	43	43	31	12
2,4-Dinitrotoluene	121-14-2	39	38	6	2	1	43	41	43	43	27	16
1,1,2,2-Tetrachloroethane	79-34-5	32	29	4	1	1	43	42	43	43	26	17
2-Nitropropane	79-46-9	43	38	7	13	7	43	40	43	43	35	8
Arochlor 1016	12674-11-2	37	33	5	1	1	41	41	41	41	14	27
Benzo [a] pyrene	50-32-8	38	36	7	7	1	41	41	41	41	22	19
Carbon disulfide	75-15-0	37	29	6	6	1	40	32	40	40	24	16
4-Methylphenol	106-44-5	36	34	9	7	5	39	36	39	39	26	13
Hexachloroethane	67-72-1	38	36	7	1	1	39	36	39	39	31	8
Anthracene	120-12-7	36	32	9	5	2	38	37	38	38	22	16
Dimethylamine	124-40-3	33	30	7	7	3	38	34	38	38	24	14
Atrazine	1912-24-9	34	32	5			37	37	37	37	27	10
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37	36	7			37	37	37	37	29	8
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	35	34	7	1	1	37	37	37	37	25	12
Acenaphthene	83-32-9	35	34	7			37	37	37	37	28	9
Nitrobenzene	98-95-3	36	30	5	6	1	37	36	37	37	28	9
Phenanthrene	85-01-8	34	32	9	5	1	36	32	36	36	21	15
2-Chlorophenol	95-57-8	34	33	6			36	34	36	36	27	9
2,4,6-Trichlorophenol	88-06-2	34	33	7	1	1	35	33	35	35	21	14
Chrysene	218-01-9	32	31	7	7	1	34	34	34	34	21	13
2,4-Dinitrophenol	51-28-5	30	28	9	5	4	34	30	34	34	18	16
Benzo(a)anthracene	56-55-3	31	27	9	12	3	33	32	33	33	14	19
Glyphosate	1071-83-6	31	23	4	14	2	33	27	33	32	25	8
Fluoranthene	206-44-0	30	30	6	8	2	32	31	32	32	26	6
Pendimethalin	40487-42-1	27	27	4			32	32	32	32	15	17
Hydrogen cyanide	74-90-8	29	29	12	2	2	32	31	32	32	20	12
Creosote	8001-58-9	31	22	9	12	5	32	22	32	32	25	7
Diquat	85-00-7	31	20	4	15	2	32	22	32	32	22	10
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31	30	6			31	31	31	31	25	6
Pyrene	129-00-0	28	28	7			30	30	30	30	22	8

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Acephate	30560-19-1	25 23		4	5	2	30 27		30	30	20 10	
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30 29		6			30 30		30	30	24 6	
1,2-Dibromo-3-chloropropane	96-12-8	23 22		5	1	1	30 30		30	30	20 10	
beta-Hexachlorocyclohexane	319-85-7	29	28	6			29	29	29	29	23 6	
Silver cyanide	506-64-9	29 12		2	12	3	29 16		29	29	24 5	
Hexazinone	51235-04-2	28 16		3	8	1	29 17		29	29	20 9	
N-Nitrosodiphenylamine	86-30-6	27 26		5	11	1	29 29		29	29	23 6	
Prometon	1610-18-0	26 20		5	5	1	28 25		28	28	19 9	
Thallium nitrate	10102-45-1	22 22		5	1	1	27 25		27	27	9 18	
cis-1,2-Dichloroethylene	156-59-2	18 17		4	1	1	27 27		27	27	14 13	
Trifluralin	1582-09-8	25 23		5			27 26		27	27	19 8	
Selenium sulfide	7446-34-6	27	27	1			27	27	27	27	27	
2,4-Dimethylphenol	105-67-9	24 23		7	4	3	26 23		26	26	16 10	
Cypermethrin	52315-07-8	21 12		1	13	2	26 16		26	26	9 17	
Benzo(b)fluoranthene	205-99-2	23 23		6	7	1	25 25		25	25	13 12	
Disulfoton	298-04-4	25	25	4			25	25	25	25	21 4	
Benzo(k)fluoranthene	207-08-9	22 22		7	7	1	24 24		24	24	11 13	
Hexachlorophene	70-30-4	24 19		6	12	5	24 13		24	24	23 1	
Toxaphene	8001-35-2	24 22		6	2	1	24 24		24	24	20 4	
beta-Chloronaphthalene	91-58-7	22 19		6	5	2	24 23		24	24	14 10	
Caprolactam	105-60-2	23 23		8	5	3	23 22		23	23	7 16	
Indeno[1,2,3-cd]pyrene	193-39-5	21 21		6	7	1	23 23		23	23	11 12	
Dibenzo(a,h)anthracene	53-70-3	21 21		6	7	1	23 23		23	23	11 12	
N-Nitroso-di-N-propylamine	621-64-7	22 21		4			23 23		23	23	16 7	
Benzidine	92-87-5	22 18		6			23 22		23	23	18 5	
Methomyl	16752-77-5	20 8 2			13	1	22	16	22	22	10 12	
Maleic anhydride	108-31-6	21 21		6	4	3	21 18		21	21	18 3	
2,4,5-Trichlorophenol	95-95-4	18 17		5			21 20		21	21	14 7	
Bis(chloroethyl)ether	111-44-4	18	17	4			20	19	20	20	12 8	
Dacthal	1861-32-1	20 15		5			20 19		20	20	14 6	
Acenaphthylene	208-96-8	18 18		6			20 20		20	20	15 5	

TABLE A-3i. Unique HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Document Group Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Copper cyanide	544-92-3	20	12	2	5	1	20	12	20	20	17	3
2,6-Dinitrotoluene	606-20-2	19	18	4			20	20	20	20	13	7
1,2,3-Trichloropropane	96-18-4	13	12	4			20	20	20	20	11	9
Zinc phosphide	1314-84-7	18	11	3	4	1	19	10	19	19	11	8
Alachlor	15972-60-8	19	19	5			19	19	19	19	15	4
Benzo[g,h,i]perylene	191-24-2	14	14	5			19	19	19	19	11	8
Aluminum phosphide	20859-73-8	19	5	3	16	1	19	17	19	19	12	7
1,1,1,2-Tetrachloroethane	630-20-6	13	12	4	2	2	19	19	19	19	10	9
Fluorene	86-73-7	17	17	6			19	19	19	19	13	6
Azobenzene	103-33-3	16	15	4			17	17	17	17	10	7
Propargyl alcohol	107-19-7	17	16	5	6	3	17	17	17	17	14	3
Dibenzofuran	132-64-9	15	14	8			17	17	17	17	6	11
Tebuthiuron	34014-18-1	16	11	5	8	2	17	12	17	17	5	12
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17	17	17	17	16	1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16	16	4			17	17	17	17	16	1
Benefin	1861-40-1	15	13	4			16	16	16	16	15	1
Metribuzin	21087-64-9	15	15	4			16	16	16	16	11	5
Naled	300-76-5	17	11	2	7	2	18	14	18	16	13	5
4-Aminopyridine	504-24-5	15	15	2			16	16	16	16	14	2
N-Nitrosodimethylamine	62-75-9	15	14	4			16	16	16	16	11	5
Phosphine	7803-51-2	16	13	4	8	2	16	8	16	16	9	7
Bayleton	43121-43-3	13	12	4			15	15	15	15	10	5
Bis(2-chloroisopropyl) ether	108-60-1	14	13	4			14	14	14	14	11	3
1-Chlorobutane	109-69-3	14	14	2			14	14	14	14	4	10
Bis(2-chloroethoxy)methane	111-91-1	13	12	4			14	14	14	14	10	4
3,3-Dimethylbenzidine	119-93-7	13	12	3	1	1	14	13	14	14	11	3
Propachlor	1918-16-7	13	11	5			14	13	14	14	7	7
Oxadiazon	19666-30-9	11	11	3			14	13	14	14	6	8
Pentabromodiphenyl ether	32534-81-9	12	9	4	5	3	14	12	14	14	6	8
Iprodione	36734-19-7	9	9	3			14	13	14	14	7	7
Potassium silver cyanide	506-61-6	13	12	3	3	2	14	13	14	14	9	5

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Pydrin	51630-58-1	14	13	4			14	14	14	14	14	
Dalapon (sodium salt)	75-99-0	14	14	4			14	14	14	14	13	1
Acetophenone	98-86-2	11	11	5			14	14	14	14	7	7
Oryzalin	19044-88-3	13	9	3	5	1	13	13	13	13	10	3
Dinoseb	88-85-7	13	13	4			13	13	13	13	13	
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13	13	13	13	10	3
Chlorobenzilate	510-15-6	12	10	5			12	11	12	12	6	6
Ethyl carbamate	51-79-6	12	12	6	2	2	12	12	12	12	7	5
2,6-Dimethylphenol	576-26-1	12	12	3	2	1	12	11	12	12	9	3
Biphenethrin	82657-04-3	4	3	2	2	1	12	10	12	12		
Pentachloronitrobenzene	82-68-8	12	12	5			12	12	12	12	12	
Quinone	106-51-4	10	10	4	3	3	11	11	11	11	5	6
Dimethoate	60-51-5	11	10	4			11	11	11	11	10	1
Cacodylic acid	75-60-5	9	9	5			11	11	11	11	6	5
Arsine	7784-42-1	11	10	3	4	1	11	4	11	11	7	4
Picloram	1918-02-1	10	10	3	2	1	10	10	10	10	10	
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10	10	3	10	4	10	5	10	10	10	
Captan	133-06-2	9	9	4	3	3	10	10	10	10	8	2
2-Chloroacetophenone	532-27-4	10	10	6	1	1	10	10	10	10	9	1
Metalaxyl	57837-19-1	9	7	2			10	10	10	10	6	4
Metolachlor	51218-45-2	9	9	4			9	9	9	9	5	4
Zinc cyanide	557-21-1	9	8	2	1	1	9	8	9	9	6	3
Aluminum sulfamate	7773-06-0	9	8	3	1	1	9	8	9	9	9	
Warfarin	81-81-2	9	6	2			9	9	9	9	9	
Chlorpropham	101-21-3	7	7	3			8	8	8	8	4	4
p-Chloroaniline	106-47-8	7	6	3			8	8	8	8	5	3
Endothall	145-73-3	8	8	2			8	8	8	8	6	2
Paraquat	1910-42-5	8	6	3			8	8	8	8	6	2
Pronamide	23950-58-5	8	8	4			8	8	8	8	7	1
Parathion	56-38-2	8	7	4			8	8	8	8	7	1
Fluridone	59756-60-4	7	5	3	4	1	8	7	8	8	3	5

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NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
2,4-Diaminotoluene	95-80-7	8	8	2			8	8	8	8	6	2
Tetrachlorovinphos	961-11-5	8	8	2			8	8	8	8	5	3
Benzyl chloride	100-44-7	6	6	6	5		7	6	7	7	4	3
Sodium diethyldithiocarbamate	148-18-5	7	7	3	2	2	7	7	7	7	4	3
Vernam	1929-77-7	7	7	4			7	7	7	7	5	2
Methyl parathion	298-00-0	7	7	6	3		7	7	7	7	5	2
Strychnine	57-24-9	7	7	6	1		7	7	7	7	7	7
Paclobutrazol	76738-62-0	7	7	7	1		7	6	7	7	6	1
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7	7	7	3		7	7	7	7	7	7
1,3,5-Trinitrobenzene	99-35-4	6	6	5	3	1	7	7	7	7	5	2
Maneb	12427-38-2	6	6	6	1		6	6	6	6	6	6
Thallic oxide	1314-32-5	5	5	5	4		6	6	6	6	3	3
Chloramben	133-90-4	6	6	6	3		6	6	6	6	5	1
Merphos	150-50-5	6	6	6	2		6	6	6	6	3	3
Benomyl	17804-35-2	6	6	6	2		6	4	6	6	5	1
Fenamiphos	22224-92-6	6	6	6	3		6	6	6	6	4	2
Cyanogen	460-19-5	5	5	5	3		6	5	6	6	1	5
Propylene glycol monoethyl ether	52125-53-8	6	6	6	2	1	6	6	6	6	4	2
Barium cyanide	542-62-1	6	6	6	1	1	6	3	6	6	6	6
Ethion	563-12-2	6	6	6	3		6	6	6	6	4	2
2,3,4,6-Tetrachlorophenol	58-90-2	5	5	5	3		6	6	6	6	3	3
Tralomethrin	66841-25-6	3	3	3	1	1	6	6	6	6		
Ally	74223-64-6	4	4	4	1	1	6	6	6	6	3	3
Ametryn	834-12-8	6	6	6	5		6	6	6	6	2	4
Rotenone	83-79-4	5	5	4	2	1	6	6	6	6	5	1
Ethyleneimine	151-56-4	5	5	5	3		5	5	5	5	3	2
Butylate	2008-41-5	5	5	5	3		5	5	5	5	3	2
Molinate	2212-67-1	5	5	5	3		5	5	5	5	3	2
Oxamyl	23135-22-0	5	5	5	3		5	5	5	5	5	5
Carboxin	5234-68-4	5	5	5	2		5	5	5	5	2	3
Nitroguanidine	556-88-7	5	5	5	3	3	5	5	5	5	3	2

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Phosmet	732-11-6	5	4	3			5	4	5	5	4	1
Allyl chloride	107-05-1	4	4	2			4	4	4	4	3	1
Adiponitrile	111-69-3	4	4	3			4	4	4	4	3	1
Carbofuran	1563-66-2	4	4	3			4	4	4	4	4	
Cyanazine	21725-46-2	4	4	3			4	4	4	4		
Tetraethyldithiopyrophosphate	3689-24-5	4	4	3			4	4	4	4	4	
Oxyfluorfen	42874-03-3	3	3	3			4	4	4	4	3	1
Carbonyl sulfide	463-58-1	4	4	2			4	4	4	4	1	3
Vinclozolin	50471-44-8	2	2	1			4	4	4	4	2	2
Thallium acetate	563-68-8	4		4	3		4	4	4	4	3	1
Propiconazole 60207-90	-1	0					4	3	4	4		
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4		4	2		4	4	4	4	1	3
Pentachlorobenzene	608-93-5	4	4	4		1	4	4	4	4	3	1
Avermectin B1	65195-55-3	4		4	2		4	4	4	4	4	
Prometryn	7287-19-6	4	4	2			4	4	4	4	2	2
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4		4	4		4	4	4	4	2	2
Dimethyl sulfate	77-78-1	4	4	3	2	1	4	4	4	4	3	1
Methyl chlorocarbonate	79-22-1	4	2	2	3	1	4	3	4	4	3	1
Isoxaben	82558-50-7	2	2	1			4	3	4	4	2	2
1,2,4,5-Tetrachlorobenzene	95-94-3	4	4	4		1	4	4	4	4	3	1
Dodine	2439-10-3	3	2	2			3	2	3	3	3	
Endosulfan	115-29-7	3	3	2			3	3	3	3	3	
Aldicarb	116-06-3	3	3	3			3	3	3	3	3	
Zineb	12122-67-7	3	3	2	2	2	3	3	3	3	1	2
Propazine	139-40-2	3	3	2			3	3	3	3	1	2
Aldicarb sulfone	1646-88-4	3	3	3			3	3	3	3	3	
Bromoxynil octanoate	1689-99-2	3		3	1		3	3	3	3	3	
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3		3	2		3	3	3	3	3	
Norflurazon	27314-13-2	3	3	2			3	3	3	3	2	1
Amitraz	33089-61-1	3	3	2			3	3	3	3	1	2
Terbacil	5902-51-2	3	3	3			3	3	3	3	2	1

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Nonabromodiphenyl ether	63936-56-1	3	3	2			3	3	3	3	2	1
Sethoxydim	74051-80-2	2	1	1			3	3	3	3	1	2
Terbutryn	886-50-0	3	3	2			3	3	3	3	1	2
Fonofos	944-22-9	3	3	3			3	3	3	3	2	1
3,4-Dimethylphenol	95-65-8	3	2	1	3	1	3	1	3	3		
Diphenamid	957-51-7	3	3	3			3	3	3	3	1	2
Benzotrichloride	98-07-7	3	3	2			3	3	3	3	2	1
1,4-Dibromobenzene	106-37-6	2	2	1			2	2	2	2	1	1
N-Nitrosodiethanolamine	1116-54-7	4	2	2			4	2	4	2	2	2
Dimethyl terephthalate (DMT)	120-61-6	2		2	1		2	2	2	2	2	
Methacrylonitrile	126-98-7	2	2	2			2	2	2	2	1	1
Aramite	140-57-8	2	2	2			2	2	2	2	2	
Bidrin	141-66-2	2	2	2			2	2	2	2	1	1
Nitrate	14797-55-8	1	1	1			2	2	2	2		
Napropamide	15299-99-7	2	2	2			2	2	2	2	1	1
Nitrapyrin	1929-82-4	2	2	2	1	1	2	2	2	2	2	
p,p'-Dibromodiphenyl ether	2050-47-7	2	2	2			2	2	2	2	1	1
Octabromodiphenyl ether	32536-52-0	2	2	1			2	2	2	2	2	
Calcium cyanide	592-01-8	2	2	2			2	2	2	2	2	
1,2,4-Tribromobenzene	615-54-3	2	2	1			2	2	2	2	2	
Acifluorfen, sodium	62476-59-9	2	2	2			2	2	2	2	2	
Sodium fluoroacetate	62-74-8	1	1	1			2	2	2	2	1	1
Chlorsulfuron	64902-72-3	1	1	1	1	1	2	2	2	2	1	1
Flutolanil	66332-96-5	1	1	1			2	2	2	2		
Fluvalinate	69409-94-5	2	2	1			2	2	2	2	2	
Merphos oxide	78-48-8	1		1	1		2	2	2	2	1	1
Imazaquin 81335-37	-7	0					2	2	2	2		
N-Nitroso-di-n-butylamine	924-16-3	2	2	2			2	2	2	2	2	
N-Nitroso-N-methylethylamine	10595-95-6	1	1	1			1	1	1	1	1	
Allyl alcohol	107-18-6	1		1	1		1	1	1	1	1	
Furan	110-00-9	1	1	1			1	1	1	1	1	

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1,2-Diphenylhydrazine	122-66-7	1	1				1	1	1	1	1	
Maleic hydrazide	123-33-1	1	1				1	1	1	1		
Chlordane (technical)	12789-03-6	1	1				1	1	1	1	1	
Fluometuron	2164-17-2	1	1				1	1	1	1	1	
Triallate	2303-17-5	1	1				1	1	1	1	1	
Thiobencarb	28249-77-6	1	1				1	1	1	1	1	
Linuron	330-55-2	1	1				1	1	1	1	1	
Isopropalin	33820-53-0	1	1				1	1	1	1	1	
t-Butyl chloride	507-20-0	1	1	1			1	1	1	1		
N-Nitrosodiethylamine	55-18-5	1	1				1	1	1	1	1	
Diethyl sulfate	64-67-5	1	1	1			1	1	1	1		
Thallium carbonate	6533-73-9	1	1	1			1	1	1	1	1	
Thallium (I) sulfate	7446-18-6	1	1	1			1	1	1	1	1	
Bromotrichloromethane	75-62-7	1	1				1	1	1	1		
Thallium chloride	7791-12-0	1	1				1	1	1	1	1	
Systhane	88671-89-0	0					1	1	1	1		
N-Nitrosopyrrolidine	930-55-2	1	1				1	1	1	1	1	
Captafol	2425-06-1											
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Express 101200-4	8-0											
Methamidophos 10265-92	-6											
Monchloramine	10599-90-3											
Chloromethyl methyl ether	107-30-2											
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
2,4-Dichlorophenol	120-83-2											
Propham	122-42-9											
p-Chlorophenyl methyl sulfide	123-09-1											
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Nickel carbonyl	13463-39-3											
Quinalphos 13593-03	-8											

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Phenmedipham	13684-63-4											
Diisopropyl methylphosphonate	1445-75-6											
Nitrite	14797-65-0											
Alar 1596-84	-5											
Ethephon	16672-87-0											
Bromoxynil 1689-84	-5											
Isopropyl methyl phosphonic acid	1832-54-8											
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Phosolone 2310-17	-0											
Propargite	2312-35-8											
Thiophanate-methyl	23564-05-8											
Mirex	2385-85-5											
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene	25329-35-5											
Pirimiphos-methyl	29232-93-7											
Asulam	3337-71-1											
Diazomethane	334-88-3											
Acetochlor	34256-82-1											
Diflubenzuron	35367-38-5											
Imazalil	35554-44-0											
Hexabromodiphenyl ether	36483-60-0											
Fosetyl-al	39148-24-8											
Danitol	39515-41-8											
Tetrabromodiphenyl ether	40088-47-9											
Difenzoquat	43222-48-6											
Tribromodiphenyl ether	49690-94-0											
Formaldehyde	50-00-0											
Chlorine cyanide	506-77-4											
o-Dinitrobenzene	528-29-0											
Bis(chloromethyl) ether	542-88-1											
Carbosulfan 55285-14	-8											

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Dimethipin	55290-64-7											
beta-Propiolactone	57-57-8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											
Tridiphane	58138-08-2											
Vinyl bromide	593-60-2											
Dibromodichloromethane	594-18-3											
1,1,2-Trichloropropane	598-77-6											
Furmecyclox	60568-05-0											
Methyl isocyanate	624-83-9											
Selenourea	630-10-4											
Cyromazine 66215-27	-8											
Prochloraz	67747-09-5											
Cyhalothrin/karate 68085-85	-8											
Haloxypop-methyl	69806-40-2											
Propanil	709-98-8											
Fomasafen	72178-02-0											
Apollo	74115-24-5											
Radium 226,228	7440-14-4											
Propyleneimine 75-55-	8											
Glycidaldehyde 765-34	-4											
Assure	76578-14-8											
Glufosinate-ammonium	77182-82-2											
Trichlorocyclopentadiene 77323-84	-3											
Lactofen	77501-63-4											
Fluorine, soluble fluoride	7782-41-4											
Savey	78587-05-0											
Harmony 79277-27	-3											
Demeton	8065-48-3											
Pursuit	81335-77-5											
Triasulfuron	82097-50-5											
Londax	83055-99-6											

TABLE A-3i. Unique HMIRS Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with Unique HMIRS Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											
Phthalic anhydride	85-44-9											
Nustar	85509-19-9											
Hexachlorobutadiene	87-68-3											
Hexabromobenzene 87-82-	1											
ortho-Anisidine	90-04-0											
Chlorimuron-ethyl	90982-32-4											
p-Chlorophenyl methyl sulfoxide	934-73-6											
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
Methidathion	950-37-8											
p-Chlorophenyl methyl sulfone	98-57-7											

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Nickel	7440-02-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
Manganese	7439-96-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Copper	7440-50-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
Methanol	67-56-1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Ethylbenzene	100-41-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
n-Butanol	71-36-3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Dichloromethane	75-09-2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
1,1,1-Trichloroethane	71-55-6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Polychlorinated biphenyls	1336-36-3	2790	2317	14	1531	31	2791	2673	2791	2791	2774	17
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
Molybdenum	7439-98-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Cyclohexanone	108-94-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
Silver	7440-22-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
Hydroquinone	123-31-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
n-Heptane	142-82-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
Cadmium	7440-43-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	1588	974	1588	1584	942	646
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
Antimony	7440-36-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
Ammonia	7664-41-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
Styrene	100-42-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Naphthalene	91-20-3	1419	718	27	879	77	635	928	1635	1626	860	775
Dichlorodifluoromethane	75-71-8	936	655	38	391	89	953	758	953	953	854	99
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	311	1040	1311	1311	808	503
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
Tetrachloroethylene	127-18-4	853	646	33	251	45	929	796	929	929	624	305
d-Limonene	5989-27-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
2-Ethoxyethanol	110-80-5	655	475	21	221	47	688	547	688	685	534	154
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5	742	342	742	731	533	209
Methylene Diphenyl Diisocyanate (monomeric MDI) 101-	68-8	874	710	39	258	47	1062	941	1062	1054	493	569
Chlorodifluoromethane	75-45-6	714	514	34	292	60	774	587	774	771	488	286
Vinyl acetate	108-05-4	740	688	21	114	26	953	897	953	952	480	473
Trichlorofluoromethane	75-69-4	521	427	31	136	48	535	485	535	534	459	76
Antimony trioxide	1309-64-4	844	461	34	511	49	906	708	906	904	433	473
Asbestos	1332-21-4	470	421	28	212	47	475	365	475	474	417	58
1,4-Dioxane	123-91-1	571	469	28	202	63	623	520	623	623	408	215
Cumene	98-82-8	1481	778	17	1129	49	1632	1041	1632	1631	386	1246
Vanadium pentoxide	1314-62-1	569	560	26	52	9	587	565	587	587	340	247
2-Methoxyethanol	109-86-4	511	273	22	321	43	559	357	559	558	332	227
Sodium azide	26628-22-8	776	667	16	83	44	1100	1043	1100	1096	328	772
1,2-Dichloroethane	107-06-2	396	165	16	96	11	440	185	440	219	318	122
Epichlorohydrin	106-89-8	507	445	16	148	26	559	496	559	558	299	260
Trichloroethylene	79-01-6	486	369	30	178	45	568	476	568	568	294	274
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600	506	600	596	253	347
Phenylmercuric acetate	62-38-4	239	230	13	42	6	240	200	240	240	222	18
Beryllium and compounds	7440-41-7	340	296	31	74	24	379	340	379	378	220	159
Tricresol	1319-77-3	268	175	22	124	19	272	217	272	272	207	65
Ammonium acetate	631-61-8	360	206	9	125	12	368	334	368	367	204	164
Carbon tetrachloride	56-23-5	270	240	14	73	18	292	253	292	291	203	89

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
N,N-Dimethylformamide	68-12-2	283	228	19	120	21	363	297	363	363	196	167
Triethylamine	121-44-8	436	404	13	299	11	459	243	459	459	190	269
1,4-Dichlorobenzene	106-46-7	223	183	16	53	11	246	219	246	245	171	75
1,2-Epoxybutane	106-88-7	268	203	18	124	26	300	256	300	300	171	129
Formic acid	64-18-6	250	188	14	86	20	271	231	271	271	171	100
Ethylene diamine	107-15-3	342	235	17	166	36	377	320	377	375	170	207
Selenium and compounds	7782-49-2	253	234	31	41	23	296	267	296	296	170	126
Isophorone	78-59-1	200	167	13	13	7	237	212	237	237	170	67
Bisphenol A	80-05-7	405	313	14	191	26	482	405	482	481	166	316
1,2-Dichlorobenzene	95-50-1	225	176	17	68	19	249	211	249	249	162	87
Propylene oxide	75-56-9	205	191	12	54	23	246	224	246	246	137	109
Chlorobenzene	108-90-7	193	155	17	60	19	213	188	213	213	134	79
Chlorine	7782-50-5	220	162	18	115	22	241	140	241	241	132	109
1,1,1,2-Tetrafluoroethane	811-97-2	598	353	24	347	52	775	575	775	775	132	643
Acrylonitrile	107-13-1	239	230	18	37	12	265	246	265	265	131	134
Chromium (VI)	18540-29-9	139	136	13	37	11	147	133	147	147	116	31
Potassium cyanide	151-50-8	152	105	9	62	14	161	128	161	161	115	46
Cyclohexylamine	108-91-8	145	111	7	40	5	154	129	154	154	114	40
Chlorothalonil	1897-45-6	174	162	8	3	1	205	174	205	205	114	91
Chlorpyrifos	2921-88-2	153	102	7	3	3	166	144	166	166	110	56
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118	116	118	118	107	11
Acrylic acid	79-10-7	199	134	17	99	14	234	191	234	234	99	135
Aniline	62-53-3	131	113	14	35	18	140	121	140	140	95	45
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112	54	6			114	56	114	57	94	20
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2	109	107	109	109	91	18
Tetraethyl lead	78-00-2	97	42	3	56	4	99	57	99	99	89	10
Pentachlorophenol	87-86-5	108	96	13	11	4	110	99	110	110	86	24
Baygon	114-26-1	99	83	7	12	5	106	98	106	106	84	22
gamma-Hexachlorocyclohexane	58-89-9	82	73	12	11	4	82	77	82	82	73	9
Carbaryl	63-25-2	89	69	6	19	2	93	84	93	93	73	20
Coke oven emissions	8007-45-2	74	61	9	16	7	77	68	77	77	70	7

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Resmethrin	10453-86-8	84 58		5	28	4	86 84		86 86		68	18
Hexachlorobenzene	118-74-1	85 79		9	5	1	88 83		88 88		66	22
Tributyltin oxide	56-35-9	98 91 10			6	6	106 98		106	106	64	42
Sodium cyanide	143-33-9	88 42		5	53	5	90 57		90 90		63	27
2-Methylphenol	95-48-7	95 88 12			22	8	103 95		103	103	62	41
Selenious acid	7783-00-8	101 80		6	27	8	110 95		110	110	61	49
Benzaldehyde	100-52-7	93 78		8	39	4	101 71		101 94		60	41
Malathion	121-75-5	74 33		5	40	2	80 70		80 80		59	21
Pyridine	110-86-1	76 58		6	20	7	83 68		83 83		58	25
Methoxychlor	72-43-5	62 62		7	1	1	63 63		63 63		58	5
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83 80 12			32	15	102 86		102	102	57	45
Thiram	137-26-8	90 84 12			53	6	93 71		93 93		57	36
o-Chlorotoluene	95-49-8	72 68 11			13	6	94 90		94 94		56	38
1,1-Biphenyl	92-52-4	97 82 15			48	14	98 75		98 98		55	43
Diphenylamine	122-39-4	100 89 14			68	26	123	110	123	123	54	69
Hydrazine/hydrazine sulfate	302-01-2	66 40		5	40	10	69 51		69 69		53	16
m-Phenylenediamine	108-45-2	83 68		8	40	7	89 69		89 89		49	40
Uranium, natural	7440-61-1	58 47		7	37	10	59 51		59 59		49	10
Acetaldehyde	75-07-0	183 169		15	51	26	323 280		323 323		49	274
Ethylene thiourea	96-45-7	57 54		8	20	8	65 58		65 65		49	16
Endrin	72-20-8	58 56		7			58 57		58 57		46	12
Bromomethane	74-83-9	53 46		7	3	2	63 61		63 63		45	18
Heptachlor	76-44-8	54 53		7			54 54		54 54		45	9
Furfural	98-01-1	61 60 10					61 61		61 61		45	16
Dicamba	1918-00-9	50 45		5	1	1	58 57		58 58		44	14
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48	47	4			55	55	55	55	44	11
Ethyl chloride	75-00-3	54 49		9	6	4	64 60		64 64		43	21
p-Nitrophenol	100-02-7	54 48		8	6	2	55 49		55 55		42	13
Diuron	330-54-1	65 39		9	34	8	72 54		72 71		39	33
Acrylamide	79-06-1	83	80	8	6	4	303 297		303 303		39	264
Heptachlor epoxide	1024-57-3	45	44	6			45	45	45	45	38	7

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,3-Dichlorobenzene	541-73-1	52 49		6	3	3	62 61		62 62		38	24
Cyanide, free	57-12-5	46 42		7	9	6	48 47		48 48		37	11
Dichlorvos	62-73-7	48 31		4	15	3	49 42		49 49		37	12
N,N-Dimethylaniline	121-69-7	65 44		5	30	4	68 55		68 68		36	32
Dieldrin	60-57-1	45 44		7			45 45		45 45		36	9
Arochlor 1254	11097-69-1	66 55		9	3	2	70 67		70 70		35	35
2,4,6-Trinitrotoluene	118-96-7	36 29		5			51 46		51 51		35	16
1,2,4-Trichlorobenzene	120-82-1	48 46		7	3	3	56 56		56 56		35	21
Bromoform	75-25-2	53 50		6	3	2	68 67		68 68		35	33
2-Nitropropane	79-46-9	43 38		7	13	7	43 40		43 43		35	8
Aldrin	309-00-2	44 43		7			44 43		44 44		34	10
Diethyl phthalate	84-66-2	51 45 16			14	10	56 53		56 56		34	22
Bromochloromethane	74-97-5	47 40 10			5	5	55 50		55 55		33	22
Simazine	122-34-9	43 34		4			46 38		46 46		32	14
Permethrin	52645-53-1	83 51		8	39	7	103 87		103	103	32	71
Amdro	67485-29-4	64 32		2	35	4	77 51		77 75		32	45
1,2-Dichloropropane	78-87-5	40 37		5			51 50		51 51		32	19
3-Methylphenol	108-39-4	40 39		8	9	6	43 40		43 43		31	12
Folpet	133-07-3	64 60		6	8	6	68 65		68 68		31	37
Hexachloroethane	67-72-1	38 36		7	1	1	39 36		39 39		31	8
Mercuric chloride	7487-94-7	43 30		5	22	7	50 44		50 50		31	19
Bromodichloromethane	75-27-4	41 38		5	2	1	50 50		50 50		31	19
1,1,2-Trichloroethane	79-00-5	39 36		6	2	2	51 49		51 51		31	20
di(2-ethylhexyl)Adipate	103-23-1	46 42 16			18	5	50 41		50 50		30	20
Dibromochloromethane	124-48-1	38 35		5	3	2	48 48		48 48		30	18
Trichloroacetic acid	76-03-9	55 48		6	15	6	62 57		62 62		30	32
trans-1,2-Dichloroethylene	156-60-5	100	77	9	54	5	136 108		136 136		29	107
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37	36	7			37	37	37	37	29	8
Acenaphthene	83-32-9	35 34		7			37 37		37 37		28	9
Nitrobenzene	98-95-3	36 30		5	6	1	37 36		37 37		28	9
2,4-Dinitrotoluene	121-14-2	39 38		6	2	1	43 41		43 43		27	16

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Atrazine	1912-24-9	34 32		5			37 37		37 37		27	10
Selenium sulfide	7446-34-6	27 27		1			27 27		27 27		27	
2-Chlorophenol	95-57-8	34 33		6			36 34		36 36		27	9
4-Methylphenol	106-44-5	36 34		9	7	5	39 36		39 39		26	13
Fluoranthene	206-44-0	30 30		6	8	2	32 31		32 32		26	6
1,1,2,2-Tetrachloroethane	79-34-5	32 29		4	1	1	43 42		43 43		26	17
Glyphosate	1071-83-6	31 23		4	14	2	33 27		33 32		25	8
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31 30		6			31 31		31 31		25	6
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	35 34		7	1	1	37 37		37 37		25	12
Creosote	8001-58-9	31 22		9	12	5	32 22		32 32		25	7
Dimethylamine	124-40-3	33 30		7	7	3	38 34		38 38		24	14
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30 29		6			30 30		30 30		24	6
Silver cyanide	506-64-9	29 12		2	12	3	29 16		29 29		24	5
Carbon disulfide	75-15-0	37 29		6	6	1	40 32		40 40		24	16
beta-Hexachlorocyclohexane	319-85-7	29 28		6			29 29		29 29		23	6
Hexachlorophene	70-30-4	24 19		6	12	5	24 13		24 24		23	1
1,1-Dichloroethane	75-34-3	33 30		5			45 44		45 45		23	22
N-Nitrosodiphenylamine	86-30-6	27 26		5	11	1	29 29		29 29		23	6
Anthracene	120-12-7	36 32		9	5	2	38 37		38 38		22	16
Pyrene	129-00-0	28 28		7			30 30		30 30		22	8
Benzo [a] pyrene	50-32-8	38 36		7	7	1	41 41		41 41		22	19
Diquat	85-00-7	31 20		4	15	2	32 22		32 32		22	10
Decabromodiphenyl ether (DBDPE)	1163-19-5	51 32 11			27	5	56 46		56 56		21	35
Chrysene	218-01-9	32 31		7	7	1	34 34		34 34		21	13
Disulfoton	298-04-4	25 25		4			25 25		25 25		21	4
Phenanthrene	85-01-8	34 32		9	5	1	36 32		36 36		21	15
2,4,6-Trichlorophenol	88-06-2	34 33		7	1	1	35 33		35 35		21	14
Acephate	30560-19-1	25 23		4	5	2	30 27		30 30		20	10
Hexazinone	51235-04-2	28 16		3	8	1	29 17		29 29		20	9
Hydrogen cyanide	74-90-8	29 29 12			2	2	32 31		32 32		20	12
Toxaphene	8001-35-2	24 22		6	2	1	24 24		24 24		20	4

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,2-Dibromo-3-chloropropane	96-12-8	23	22	5	1	1	30	30	30	30	20	10
Trifluralin	1582-09-8	25	23	5			27	26	27	27	19	8
Prometon	1610-18-0	26	20	5	5	1	28	25	28	28	19	9
Maleic anhydride	108-31-6	21	21	6	4	3	21	18	21	21	18	3
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	27	25	6	9	4	46	42	46	46	18	28
2,4-Dinitrophenol	51-28-5	30	28	9	5	4	34	30	34	34	18	16
Benzidine	92-87-5	22	18	6			23	22	23	23	18	5
Triethylene glycol monobutyl ether	143-22-6	48	30	4	22	1	60	45	60	60	17	43
Copper cyanide	544-92-3	20	12	2	5	1	20	12	20	20	17	3
2,4-Dimethylphenol	105-67-9	24	23	7	4	3	26	23	26	26	16	10
N-Nitroso-di-N-propylamine	621-64-7	22	21	4			23	23	23	23	16	7
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17	17	17	17	16	1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16	16	4			17	17	17	17	16	1
Alachlor	15972-60-8	19	19	5			19	19	19	19	15	4
Benefin	1861-40-1	15	13	4			16	16	16	16	15	1
Acenaphthylene	208-96-8	18	18	6			20	20	20	20	15	5
Pendimethalin	40487-42-1	27	27	4			32	32	32	32	15	17
Propargyl alcohol	107-19-7	17	16	5	6	3	17	17	17	17	14	3
Arochlor 1016	12674-11-2	37	33	5	1	1	41	41	41	41	14	27
cis-1,2-Dichloroethylene	156-59-2	18	17	4	1	1	27	27	27	27	14	13
Dacthal	1861-32-1	20	15	5			20	19	20	20	14	6
4-Aminopyridine	504-24-5	15	15	2			16	16	16	16	14	2
Pydrin	51630-58-1	14	13	4			14	14	14	14	14	
Benzo(a)anthracene	56-55-3	31	27	9	12	3	33	32	33	33	14	19
beta-Chloronaphthalene	91-58-7	22	19	6	5	2	24	23	24	24	14	10
2,4,5-Trichlorophenol	95-95-4	18	17	5			21	20	21	21	14	7
Benzo(b)fluoranthene	205-99-2	23	23	6	7	1	25	25	25	25	13	12
Naled	300-76-5	17	11	2	7	2	18	14	18	16	13	5
2,6-Dinitrotoluene	606-20-2	19	18	4			20	20	20	20	13	7
Dalapon (sodium salt)	75-99-0	14	14	4			14	14	14	14	13	1
Fluorene	86-73-7	17	17	6			19	19	19	19	13	6

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Dinoseb	88-85-7	13	13	4			13	13	13	13	13	
Bis(chloroethyl)ether	111-44-4	18	17	4			20	19	20	20	12	8
Aluminum phosphide	20859-73-8	19	5	3	16	1	19	17	19	19	12	7
Pentachloronitrobenzene	82-68-8	12	12	5			12	12	12	12	12	
Bis(2-chloroisopropyl) ether	108-60-1	14		13	4		14	14	14	14	11	3
3,3-Dimethylbenzidine	119-93-7	13	12	3	1	1	14	13	14	14	11	3
Zinc phosphide	1314-84-7	18	11	3	4	1	19	10	19	19	11	8
Benzo[g,h,i]perylene	191-24-2	14	14	5			19	19	19	19	11	8
Indeno[1,2,3-cd]pyrene	193-39-5	21	21	6	7	1	23	23	23	23	11	12
Benzo(k)fluoranthene	207-08-9	22	22	7	7	1	24	24	24	24	11	13
Metribuzin	21087-64-9	15	15	4			16	16	16	16	11	5
Dibenzo(a,h)anthracene	53-70-3	21	21	6	7	1	23	23	23	23	11	12
N-Nitrosodimethylamine	62-75-9	15	14	4			16	16	16	16	11	5
Baythroid	68359-37-5	32	12	1	20	2	50	38	50	50	11	39
1,2,3-Trichloropropane	96-18-4	13	12	4			20	20	20	20	11	9
Picloram	1918-02-1	10	10	3	2	1	10	10	10	10	10	
Nitric Oxide	10102-43-9	27	26	9	2	2	43	34	43	43	10	33
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10		10	3	10	4	10	5	10	10	
Azobenzene	103-33-3	16	15	4			17	17	17	17	10	7
Bis(2-chloroethoxy)methane	111-91-1	13	12	4			14	14	14	14	10	4
Methomyl	16752-77-5	20	8	2	13	1	22	16	22	22	10	12
Oryzalin	19044-88-3	13	9	3	5	1	13	13	13	13	10	3
Bayleton	43121-43-3	13	12	4			15	15	15	15	10	5
Dimethoate	60-51-5	11	10	4			11	11	11	11	10	1
1,1,1,2-Tetrachloroethane	630-20-6	13	12	4	2	2	19	19	19	19	10	9
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13	13	13	13	10	3
Thallium nitrate	10102-45-1	22	22	5	1	1	27	25	27	27	9	18
Potassium silver cyanide	506-61-6	13	12	3	3	2	14	13	14	14	9	5
Cypermethrin	52315-07-8	21	12	1	13	2	26	16	26	26	9	17
2-Chloroacetophenone	532-27-4	10	10	6	1	1	10	10	10	10	9	1
2,6-Dimethylphenol	576-26-1	12	12	3	2	1	12	11	12	12	9	3

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Aluminum sulfamate	7773-06-0	9 8 3			1	1	9 8		9 9		9	
Phosphine	7803-51-2	16	13 4		8	2	16 8		16	16	9	7
Warfarin	81-81-2	9 6 2					9 9		9 9		9	
Captan	133-06-2	9 9 4			3	3	10	10	10	10	8	2
Pentafluoroethane	354-33-6	56 40		3	31	2	86 47		86 86		8	78
Caprolactam	105-60-2	23 23		8	5	3	23 22		23 23		7	16
Propachlor	1918-16-7	13 11		5			14 13		14 14		7	7
Pronamide	23950-58-5	8 8 4					8 8		8 8		7	1
Iprodione	36734-19-7	9 9 3					14	13	14	14	7	7
Ethyl carbamate	51-79-6	12 12		6	2	2	12 12		12 12		7	5
Parathion	56-38-2	8 7 4					8 8		8 8		7	1
Strychnine	57-24-9	7 6 1					7 7		7 7		7	
Arsine	7784-42-1	11	10 3		4	1	11 4		11	11	7	4
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7 7 3					7 7		7 7		7	
Acetophenone	98-86-2	11 11		5			14 14		14 14		7	7
Maneb	12427-38-2	6 6 1					6 6		6 6		6	
Dibenzofuran	132-64-9	15 14		8			17 17		17 17		6	11
Endothall	145-73-3	8 8 2					8 8		8 8		6	2
Paraquat	1910-42-5	8 6 3					8 8		8 8		6	2
Oxadiazon	19666-30-9	11 11		3			14 13		14 14		6	8
Pentabromodiphenyl ether	32534-81-9	12 9 4			5	3	14	12	14	14	6	8
Chlorobenzilate	510-15-6	12 10		5			12 11		12 12		6	6
Barium cyanide	542-62-1	6 1 1			6	1	6 3		6 6		6	
Zinc cyanide	557-21-1	9 8 2			1	1	9 8		9 9		6	3
Metalaxyl	57837-19-1	9 7 2					10	10	10	10	6	4
Cacodylic acid	75-60-5	9	9	5			11	11	11	11	6	5
Paclobutrazol	76738-62-0	7 7 1					7 6		7 7		6	1
2,4-Diaminotoluene	95-80-7	8 8 2					8 8		8 8		6	2
p-Chloroaniline	106-47-8	7 6 3					8 8		8 8		5	3
Quinone	106-51-4	10 10		4	3	3	11 11		11 11		5	6
Chloramben	133-90-4	6 6 3					6 6		6 6		5	1

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Benomyl	17804-35-2	6 6 2					6 4		6 6		5	1
Vernam	1929-77-7	7 7 4					7 7		7 7		5	2
Oxamyl	23135-22-0	5 5 3					5 5		5 5		5	
Methyl parathion	298-00-0	7 6 3					7 7		7 7		5	2
Tebuthiuron	34014-18-1	16 11		5	8	2	17 12		17 17		5	12
Metolachlor	51218-45-2	9 9 4					9 9		9 9		5	4
Rotenone	83-79-4	5 4 2			2	1	6 6		6 6		5	1
Tetrachlorovinphos	961-11-5	8 8 2					8 8		8 8		5	3
1,3,5-Trinitrobenzene	99-35-4	6 5 3			3	1	7 7		7 7		5	2
Benzyl chloride	100-44-7	6 6 5					7 6		7 7		4	3
Chlorpropham	101-21-3	7 7 3					8 8		8 8		4	4
1-Chlorobutane	109-69-3	14 14		2			14 14		14 14		4	10
Sodium diethyldithiocarbamate	148-18-5	7 7 3			2	2	7 7		7 7		4	3
Carbofuran	1563-66-2	4 4 3					4 4		4 4		4	
Fenamiphos	22224-92-6	6 6 3					6 6		6 6		4	2
Tetraethyldithiopyrophosphate	3689-24-5	4 4 3					4 4		4 4		4	
Propylene glycol monoethyl ether	52125-53-8	6 6 2			2	1	6 6		6 6		4	2
Ethion	563-12-2	6 5 3					6 6		6 6		4	2
Avermectin B1	65195-55-3	4 4 2					4 4		4 4		4	
Phosmet	732-11-6	5 4 3					5 4		5 5		4	1
Dodine	2439-10-3	3 2 2					3 2		3 3		3	
Allyl chloride	107-05-1	4 4 2					4 4		4 4		3	1
Adiponitrile	111-69-3	4 4 3					4 4		4 4		3	1
Endosulfan	115-29-7	3 3 2					3 3		3 3		3	
Aldicarb	116-06-3	3 3 3					3 3		3 3		3	
Thallic oxide	1314-32-5	5 5 4					6 6		6 6		3	3
Merphos	150-50-5	6 6 2					6 6		6 6		3	3
Ethyleneimine	151-56-4	5 5 3					5 5		5 5		3	2
Aldicarb sulfone	1646-88-4	3 3 3					3 3		3 3		3	
Bromoxynil octanoate	1689-99-2	3 3 1					3 3		3 3		3	
Butylate	2008-41-5	5 5 3					5 5		5 5		3	2

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3 3 2					3 3		3 3		3	
Molinate	2212-67-1	5 5 3					5 5		5 5		3	2
Oxyfluorfen	42874-03-3	3 3 3					4 4		4 4		3	1
Nitroguanidine	556-88-7	5 5 3			3	3	5 5		5 5		3	2
Thallium acetate	563-68-8	4 4 3					4 4		4 4		3	1
2,3,4,6-Tetrachlorophenol	58-90-2	5 5 3					6 6		6 6		3	3
Fluridone	59756-60-4	7 5 3			4	1	8 7		8 8		3	5
Pentachlorobenzene	608-93-5	4 4 4			1	1	4 4		4 4		3	1
Ally	74223-64-6	4 3 1			2	1	6 6		6 6		3	3
Dimethyl sulfate	77-78-1	4 4 3			2	1	4 4		4 4		3	1
Methyl chlorocarbonate	79-22-1	4 2 2			3	1	4 3		4 4		3	1
1,2,4,5-Tetrachlorobenzene	95-94-3	4 4 4			1	1	4 4		4 4		3	1
N-Nitrosodiethanolamine	1116-54-7	4 2 2					4 2		4 2		2	2
Dimethyl terephthalate (DMT)	120-61-6	2	2	1			2	2	2	2	2	
Aramite	140-57-8	2 2 2					2 2		2 2		2	
Nitrapyrin	1929-82-4	2 2 2			1	1	2 2		2 2		2	
Norflurazon	27314-13-2	3 3 2					3 3		3 3		2	1
Octabromodiphenyl ether	32536-52-0	2 2 1					2 2		2 2		2	
Vinclozolin	50471-44-8	2 2 1					4 4		4 4		2	2
Carboxin	5234-68-4	5 5 2					5 5		5 5		2	3
Terbacil	5902-51-2	3 3 3					3 3		3 3		2	1
Calcium cyanide	592-01-8	2 2 2					2 2		2 2		2	
1,2,4-Tribromobenzene	615-54-3	2 2 1					2 2		2 2		2	
Acifluorfen, sodium	62476-59-9	2 2 2					2 2		2 2		2	
Nonabromodiphenyl ether	63936-56-1	3 3 2					3 3		3 3		2	1
Fluvalinate	69409-94-5	2 2 1					2 2		2 2		2	
Prometryn	7287-19-6	4 4 2					4 4		4 4		2	2
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4	4	4			4	4	4	4	2	2
Isoxaben	82558-50-7	2 2 1					4 3		4 4		2	2
Ametryn	834-12-8	6 6 5					6 6		6 6		2	4
N-Nitroso-di-n-butylamine	924-16-3	2 2 2					2 2		2 2		2	

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Fonofos	944-22-9	3 3 3					3 3		3 3		2	1
Benzotrithloride	98-07-7	3 3 2					3 3		3 3		2	1
N-Nitroso-N-methylethylamine	10595-95-6	1 1 1					1 1		1 1		1	
1,4-Dibromobenzene	106-37-6	2 2 1					2 2		2 2		1	1
Allyl alcohol	107-18-6	1 1 1					1 1		1 1		1	
Furan	110-00-9	1 1 1					1 1		1 1		1	
Zineb	12122-67-7	3 3 2			2	2	3 3		3 3		1	2
1,2-Diphenylhydrazine	122-66-7	1 1 1					1 1		1 1		1	
Methacrylonitrile	126-98-7	2 2 2					2 2		2 2		1	1
Chlordane (technical)	12789-03-6	1 1 1					1 1		1 1		1	
Propazine	139-40-2	3 3 2					3 3		3 3		1	2
Bidrin	141-66-2	2 2 2					2 2		2 2		1	1
Napropamide	15299-99-7	2 2 2					2 2		2 2		1	1
p,p'-Dibromodiphenyl ether	2050-47-7	2 2 2					2 2		2 2		1	1
Fluometuron	2164-17-2	1 1 1					1 1		1 1		1	
Triallate	2303-17-5	1 1 1					1 1		1 1		1	
Thiobencarb	28249-77-6	1 1 1					1 1		1 1		1	
Linuron	330-55-2	1 1 1					1 1		1 1		1	
Amitraz	33089-61-1	3 3 2					3 3		3 3		1	2
Isopropalin	33820-53-0	1 1 1					1 1		1 1		1	
Cyanogen	460-19-5	5 5 3					6 5		6 6		1	5
Carbonyl sulfide	463-58-1	4 4 2					4 4		4 4		1	3
N-Nitrosodiethylamine	55-18-5	1 1 1					1 1		1 1		1	
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4 4 2					4 4		4 4		1	3
Sodium fluoroacetate	62-74-8	1 1 1					2 2		2 2		1	1
Chlorsulfuron	64902-72-3	1 1 1			1	1	2 2		2 2		1	1
Thallium carbonate	6533-73-9	1 1 1					1 1		1 1		1	
Sethoxydim	74051-80-2	2 1 1					3 3		3 3		1	2
Thallium (I) sulfate	7446-18-6	1	1	1			1	1	1	1	1	
Thallium chloride	7791-12-0	1 1 1					1 1		1 1		1	
Merphos oxide	78-48-8	1 1 1					2 2		2 2		1	1

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NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Terbutryn	886-50-0	3 3 2					3 3		3 3		1	2
N-Nitrosopyrrolidine	930-55-2	1 1 1					1 1		1 1		1	
Diphenamid	957-51-7	3 3 3					3 3		3 3		1	2
Methyl acrylate	96-33-3	83 56		4	78	1	102 67		102	102	1	101
Captafol 2425-06	-1											
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Express	101200-48-0											
Methamidophos 10265-92	-6											
Monchloramine	10599-90-3											
Chloromethyl methyl ether	107-30-2											
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
2,4-Dichlorophenol	120-83-2											
Propham	122-42-9											
p-Chlorophenyl methyl sulfide	123-09-1											
Maleic hydrazide	123-33-1	1 1 1					1 1		1 1			
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Nickel carbonyl	13463-39-3											
Quinalphos	13593-03-8											
Phenmedipham 13684-63	-4											
Diisopropyl methylphosphonate	1445-75-6											
Nitrate	14797-55-8	1 1 1					2 2		2 2			
Nitrite	14797-65-0											
Alar 1596-84	-5											
Ethephon	16672-87-0											
Bromoxynil	1689-84-5											
Isopropyl methyl phosphonic acid	1832-54-8											
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Cyanazine	21725-46-2	4 4 3					4 4		4 4			
Phosolone 2310-17	-0											
Propargite 2312-35	-8											

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NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Thiophanate-methyl	23564-05-8											
Mirex	2385-85-5											
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene 25329-35	-5											
Pirimiphos-methyl	29232-93-7											
Asulam 3337-71	-1											
Diazomethane	334-88-3											
Acetochlor	34256-82-1											
Diflubenzuron 35367-38	-5											
Imazalil	35554-44-0											
Hexabromodiphenyl ether	36483-60-0											
Fosetyl-al	39148-24-8											
Danitol 39515-41	-8											
Tetrabromodiphenyl ether	40088-47-9											
Difenzoquat	43222-48-6											
Tribromodiphenyl ether	49690-94-0											
Formaldehyde	50-00-0											
Chlorine cyanide	506-77-4											
t-Butyl chloride	507-20-0	1	1				1		1			
o-Dinitrobenzene	528-29-0											
Bis(chloromethyl) ether	542-88-1											
Carbosulfan	55285-14-8											
Dimethipin	55290-64-7											
beta-Propiolactone	57-57-8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											
Tridipane	58138-08-2											
Vinyl bromide	593-60-2											
Dibromodichloromethane	594-18-3											
1,1,2-Trichloropropane	598-77-6											
Propiconazole	60207-90-1	0					4	3	4	4		
Furmecyclox 60568-05	-0											

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Methyl isocyanate	624-83-9											
Selenourea	630-10-4											
Diethyl sulfate	64-67-5	1 1	1				1 1		1 1			
Cyromazine	66215-27-8											
Flutolanil	66332-96-5	1 1	1				2 2		2 2			
Tralomethrin	66841-25-6	3 3	1		1	1	6 6		6 6			
Prochloraz	67747-09-5											
Cyhalothrin/karate	68085-85-8											
Haloxypop-methyl	69806-40-2											
Propanil	709-98-8											
Fomasafen 72178-02	-0											
Apollo	74115-24-5											
Radium 226,228	7440-14-4											
Propyleneimine	75-55-8											
Bromotrichloromethane	75-62-7	1 1	1				1 1		1 1			
Glycidaldehyde	765-34-4											
Assure	76578-14-8											
Glufosinate-ammonium	77182-82-2											
Trichlorocyclopentadiene 77323-84	-3											
Lactofen 77501-63	-4											
Fluorine, soluble fluoride	7782-41-4											
Savey	78587-05-0											
Harmony 79277-27	-3											
Demeton	8065-48-3											
Imazaquin	81335-37-7	0					2	2	2	2		
Pursuit	81335-77-5											
Triasulfuron 82097-50	-5											
Biphenthrin	82657-04-3	4 3	2		2	1	12	10	12	12		
Londax	83055-99-6											
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											
Phthalic anhydride	85-44-9											

TABLE A-3j. HMIRS B-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS B-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Nustar	85509-19-9											
Hexachlorobutadiene	87-68-3											
Hexabromobenzene	87-82-1											
Systhane	88671-89-0	0					1	1	1	1		
ortho-Anisidine 90-04-	0											
Chlorimuron-ethyl	90982-32-4											
p-Chlorophenyl methyl sulfoxide	934-73-6											
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
Methidathion	950-37-8											
3,4-Dimethylphenol	95-65-8	3 2 1			3	1	3 1		3 3			
p-Chlorophenyl methyl sulfone	98-57-7											

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Ethylbenzene	100-41-4	8489	5174	48	4702	210	10696	8093	10696	10670	3698	6998
Ethylene glycol	107-21-1	8723	7066	63	1893	221	10234	8685	10234	10225	5476	4758
Methanol	67-56-1	6689	4803	86	2277	294	7659	6353	7659	7652	3837	3822
Nickel	7440-02-0	7079	5977	108	2745	183	7850	6316	7850	7820	4445	3405
n-Butanol	71-36-3	5703	3222	36	2833	132	6253	5148	6253	6227	3184	3069
Manganese	7439-96-5	6637	5485	80	2020	115	7411	6272	7411	7376	4442	2969
Copper	7440-50-8	6267	5242	106	1865	186	6993	5834	6993	6969	4317	2676
Propylene glycol	57-55-6	3601	2789	45	1254	156	4063	3125	4063	4062	1818	2245
Ethyl acetate	141-78-6	3885	3029	46	1139	113	4385	3805	4385	4378	2913	1472
Molybdenum	7439-98-7	2785	2434	66	810	65	3186	2730	3186	3180	1811	1375
Cyclohexanone	108-94-1	2599	1789	27	1134	67	2829	2278	2829	2822	1509	1320
Cumene	98-82-8	1481	778	17	1129	49	1632	1041	1632	1631	386	1246
Hydrogen chloride	7647-01-0	2222	1714	30	683	143	2670	2295	2670	2664	1479	1191
1,6-Hexamethylene diisocyanate	822-06-0	2063	1229	13	1404	32	2283	1440	2283	2263	1096	1187
Antimony	7440-36-0	2009	1266	45	1419	62	2105	1001	2105	2097	938	1167
Phosphoric acid	7664-38-2	2170	1450	44	955	121	2437	1953	2437	2435	1325	1112
Arsenic, inorganic	7440-38-2	1587	1019	55	1053	74	1679	809	1679	1678	579	1100
n-Heptane	142-82-5	1803	1149	39	982	122	2116	1571	2116	2116	1030	1086
Silver	7440-22-4	2222	1701	55	893	92	2491	2005	2491	2488	1407	1084
Propylene glycol monomethyl ether	107-98-2	1869	1283	32	784	91	2048	1601	2048	2039	974	1074
Hydroquinone	123-31-9	2199	1324	21	860	58	2337	2016	2337	2331	1307	1030
Cadmium	7440-43-9	1860	1489	59	978	126	1970	1364	1970	1964	958	1012
Dichloromethane	75-09-2	3978	2809	55	1266	117	4136	3522	4136	4127	3146	990
d-Limonene	5989-27-5	1314	963	26	670	68	1488	1033	1488	1486	604	884
Isobutyl alcohol	78-83-1	2302	1242	21	1489	47	2432	1828	2432	2426	1569	863
Naphthalene	91-20-3	1419	718	27	879	77	1635	928	1635	1626	860	775
Sodium azide	26628-22-8	776	667	16	83	44	1100	1043	1100	1096	328	772
Styrene	100-42-5	1480	1198	32	224	40	1646	1405	1646	1640	904	742
Mercury, elemental	7439-97-6	1521	1134	38	1065	55	1588	974	1588	1584	942	646

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,1,1,2-Tetrafluoroethane	811-97-2	598	353	24	347	52	775	575	775	775	132	643
Methylene Diphenyl Diisocyanate (monomeric MDI) 101-	68-8	874	710	39	258	47	1062	941	1062	1054	493	569
Ammonia	7664-41-7	1353	1116	37	292	74	1453	1246	1453	1453	936	517
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1265	657	33	861	42	1311	1040	1311	1311	808	503
Dibutyl phthalate	84-74-2	1027	865	37	338	66	1132	914	1132	1131	641	491
Vinyl acetate	108-05-4	740	688	21	114	26	953	897	953	952	480	473
Antimony trioxide	1309-64-4	844	461	34	511	49	906	708	906	904	433	473
1,1,1-Trichloroethane	71-55-6	3487	2744	68	880	158	3552	3140	3552	3549	3080	472
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9	487	374	27	180	38	600	506	600	596	253	347
Bisphenol A	80-05-7	405	313	14	191	26	482	405	482	481	166	316
White phosphorus	7723-14-0	937	864	53	171	41	1054	910	1054	1053	741	313
Butyl benzyl phthalate	85-68-7	979	839	20	193	31	1070	991	1070	1069	759	311
Tetrachloroethylene	127-18-4	853	646	33	251	45	929	796	929	929	624	305
Chlorodifluoromethane	75-45-6	714	514	34	292	60	774	587	774	771	488	286
Acetaldehyde	75-07-0	183	169	15	51	26	323	280	323	323	49	274
Trichloroethylene	79-01-6	486	369	30	178	45	568	476	568	568	294	274
Triethylamine	121-44-8	436	404	13	299	11	459	243	459	459	190	269
Acrylamide	79-06-1	83	80	8	6	4	303	297	303	303	39	264
Epichlorohydrin	106-89-8	507	445	16	148	26	559	496	559	558	299	260
Vanadium pentoxide	1314-62-1	569	560	26	52	9	587	565	587	587	340	247
2-Methoxyethanol	109-86-4	511	273	22	321	43	559	357	559	558	332	227
1,4-Dioxane	123-91-1	571	469	28	202	63	623	520	623	623	408	215
Methyl tert-butyl ether	1634-04-4	721	269	11	393	5	742	342	742	731	533	209
Ethylene diamine	107-15-3	342	235	17	166	36	377	320	377	375	170	207
N,N-Dimethylformamide	68-12-2	283	228	19	120	21	363	297	363	363	196	167
Ammonium acetate	631-61-8	360	206	9	125	12	368	334	368	367	204	164
Beryllium and compounds	7440-41-7	340	296	31	74	24	379	340	379	378	220	159
2-Ethoxyethanol	110-80-5	655	475	21	221	47	688	547	688	685	534	154
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	1057	763	40	372	70	1087	918	1087	1086	939	148
Acrylic acid	79-10-7	199	134	17	99	14	234	191	234	234	99	135
Acrylonitrile	107-13-1	239	230	18	37	12	265	246	265	265	131	134

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
1,2-Epoxybutane	106-88-7	268	203	18	124	26	300	256	300	300	171	129
Selenium and compounds	7782-49-2	253	234	31	41	23	296	267	296	296	170	126
1,2-Dichloroethane	107-06-2	396	165	16	96	11	440	185	440	219	318	122
Propylene oxide	75-56-9	205	191	12	54	23	246	224	246	246	137	109
Chlorine	7782-50-5	220	162	18	115	22	241	140	241	241	132	109
trans-1,2-Dichloroethylene	156-60-5	100	77	9	54	5	136	108	136	136	29	107
Methyl acrylate	96-33-3	83	56	4	78	1	102	67	102	102	1	101
Formic acid	64-18-6	250	188	14	86	20	271	231	271	271	171	100
Dichlorodifluoromethane	75-71-8	936	655	38	391	89	953	758	953	953	854	99
Chlorothalonil	1897-45-6	174	162	8	3	1	205	174	205	205	114	91
Carbon tetrachloride	56-23-5	270	240	14	73	18	292	253	292	291	203	89
1,2-Dichlorobenzene	95-50-1	225	176	17	68	19	249	211	249	249	162	87
Chlorobenzene	108-90-7	193	155	17	60	19	213	188	213	213	134	79
Pentafluoroethane	354-33-6	56	40	3	31	2	86	47	86	86	8	78
Trichlorofluoromethane	75-69-4	521	427	31	136	48	535	485	535	534	459	76
1,4-Dichlorobenzene	106-46-7	223	183	16	53	11	246	219	246	245	171	75
Permethrin	52645-53-1	83	51	8	39	7	103	87	103	103	32	71
Diphenylamine	122-39-4	100	89	14	68	26	123	110	123	123	54	69
Isophorone	78-59-1	200	167	13	13	7	237	212	237	237	170	67
Tricresol	1319-77-3	268	175	22	124	19	272	217	272	272	207	65
Asbestos	1332-21-4	470	421	28	212	47	475	365	475	474	417	58
Chlorpyrifos	2921-88-2	153	102	7	3	3	166	144	166	166	110	56
Selenious acid	7783-00-8	101	80	6	27	8	110	95	110	110	61	49
Potassium cyanide	151-50-8	152	105	9	62	14	161	128	161	161	115	46
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	83	80	12	32	15	102	86	102	102	57	45
Aniline	62-53-3	131	113	14	35	18	140	121	140	140	95	45
Amdro	67485-29-4	64	32	2	35	4	77	51	77	75	32	45
Triethylene glycol monobutyl ether	143-22-6	48	30	4	22	1	60	45	60	60	17	43
1,1-Biphenyl	92-52-4	97	82	15	48	14	98	75	98	98	55	43
Tributyltin oxide	56-35-9	98	91	10	6	6	106	98	106	106	64	42
Benzaldehyde	100-52-7	93	78	8	39	4	101	71	101	94	60	41

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
2-Methylphenol	95-48-7	95 88 12			22	8	103 95		103	103	62	41
m-Phenylenediamine	108-45-2	83 68		8	40	7	89 89		89 89		49	40
Cyclohexylamine	108-91-8	145 111		7	40	5	154 129		154 154		114	40
Baythroid	68359-37-5	32 12		1	20	2	50 38		50 50		11	39
o-Chlorotoluene	95-49-8	72 68 11			13	6	94 90		94 94		56	38
Folpet	133-07-3	64 60		6	8	6	68 65		68 68		31	37
Thiram	137-26-8	90 84 12			53	6	93 71		93 93		57	36
Arochlor 1254	11097-69-1	66 55		9	3	2	70 67		70 70		35	35
Decabromodiphenyl ether (DBDPE)	1163-19-5	51 32 11			27	5	56 46		56 56		21	35
Nitric Oxide	10102-43-9	27 26		9	2	2	43 34		43 43		10	33
Diuron	330-54-1	65 39		9	34	8	72 54		72 71		39	33
Bromoform	75-25-2	53 50		6	3	2	68 67		68 68		35	33
N,N-Dimethylaniline	121-69-7	65 44		5	30	4	68 55		68 68		36	32
Trichloroacetic acid	76-03-9	55 48		6	15	6	62 57		62 62		30	32
Chromium (VI)	18540-29-9	139 136		13	37	11	147 133		147 147		116	31
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	27 25		6	9	4	46 42		46 46		18	28
Arochlor 1016	12674-11-2	37 33		5	1	1	41 41		41 41		14	27
Sodium cyanide	143-33-9	88 42		5	53	5	90 57		90 90		63	27
Pyridine	110-86-1	76 58		6	20	7	83 68		83 83		58	25
1,3-Dichlorobenzene	541-73-1	52 49		6	3	3	62 61		62 62		38	24
Pentachlorophenol	87-86-5	108 96 13			11	4	110 99		110	110	86	24
Baygon	114-26-1	99 83		7	12	5	106 98		106	106	84	22
Hexachlorobenzene	118-74-1	85 79		9	5	1	88 83		88 88		66	22
Bromochloromethane	74-97-5	47 40 10			5	5	55 50		55 55		33	22
1,1-Dichloroethane	75-34-3	33 30		5			45 44		45 45		23	22
Diethyl phthalate	84-66-2	51 45 16			14	10	56 53		56 56		34	22
1,2,4-Trichlorobenzene	120-82-1	48 46		7	3	3	56 56		56 56		35	21
Malathion	121-75-5	74 33		5	40	2	80 70		80 80		59	21
Ethyl chloride	75-00-3	54 49		9	6	4	64 60		64 64		43	21
di(2-ethylhexyl)Adipate	103-23-1	46 42 16			18	5	50 41		50 50		30	20
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	112 54		6			114 56		114 57		94	20

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Carbaryl	63-25-2	89 69		6	19	2	93 84		93 93		73	20
1,1,2-Trichloroethane	79-00-5	39 36		6	2	2	51 49		51 51		31	20
Benzo [a] pyrene	50-32-8	38 36		7	7	1	41 41		41 41		22	19
Benzo(a)anthracene	56-55-3	31 27		9	12	3	33 32		33 33		14	19
Mercuric chloride	7487-94-7	43 30		5	22	7	50 44		50 50		31	19
Bromodichloromethane	75-27-4	41 38		5	2	1	50 50		50 50		31	19
1,2-Dichloropropane	78-87-5	40 37		5			51 50		51 51		32	19
Thallium nitrate	10102-45-1	22 22		5	1	1	27 25		27 27		9	18
Resmethrin	10453-86-8	84 48		5	28	4	86 84		86 86		68	18
Dibromochloromethane	124-48-1	38 35		5	3	2	48 48		48 48		30	18
Phenylmercuric acetate	62-38-4	239 230		13	42	6	240 200		240 240		222	18
Bromomethane	74-83-9	53 46		7	3	2	63 61		63 63		45	18
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	99	95	6	6	2	109	107	109	109	91	18
Polychlorinated biphenyls	1336-36-3	2790 2317		14	1531	31	2791 2673		2791 2791		2774	17
Pendimethalin	40487-42-1	27 27		4			32 32		32 32		15	17
Cypermethrin	52315-07-8	21 12		1	13	2	26 16		26 26		9	17
1,1,2,2-Tetrachloroethane	79-34-5	32 29		4	1	1	43 42		43 43		26	17
Caprolactam	105-60-2	23 23		8	5	3	23 22		23 23		7	16
2,4,6-Trinitrotoluene	118-96-7	36 29		5			51 46		51 51		35	16
Anthracene	120-12-7	36 32		9	5	2	38 37		38 38		22	16
2,4-Dinitrotoluene	121-14-2	39 38		6	2	1	43 41		43 43		27	16
Hydrazine/hydrazine sulfate	302-01-2	66 40		5	40	10	69 51		69 69		53	16
2,4-Dinitrophenol	51-28-5	30 28		9	5	4	34 30		34 34		18	16
Carbon disulfide	75-15-0	37 29		6	6	1	40 32		40 40		24	16
Ethylene thiourea	96-45-7	57 54		8	20	8	65 58		65 65		49	16
Furfural	98-01-1	61 60 10					61 61		61 61		45	16
Phenanthrene	85-01-8	34 32		9	5	1	36 32		36 36		21	15
Simazine	122-34-9	43 34		4			46 38		46 46		32	14
Dimethylamine	124-40-3	33 30		7	7	3	38 34		38 38		24	14
Dicamba	1918-00-9	50 45		5	1	1	58 57		58 58		44	14
2,4,6-Trichlorophenol	88-06-2	34 33		7	1	1	35 33		35 35		21	14

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
p-Nitrophenol	100-02-7	54 48		8	6	2	55 49		55 55		42	13
4-Methylphenol	106-44-5	36 34		9	7	5	39 36		39 39		26	13
cis-1,2-Dichloroethylene	156-59-2	18 17		4	1	1	27 27		27 27		14	13
Benzo(k)fluoranthene	207-08-9	22 22		7	7	1	24 24		24 24		11	13
Chrysene	218-01-9	32 31		7	7	1	34 34		34 34		21	13
3-Methylphenol	108-39-4	40 39		8	9	6	43 40		43 43		31	12
Methomyl	16752-77-5	20 8 2			13	1	22	16	22	22	10	12
Indeno[1,2,3-cd]pyrene	193-39-5	21 21		6	7	1	23 23		23 23		11	12
Benzo(b)fluoranthene	205-99-2	23 23		6	7	1	25 25		25 25		13	12
Tebuthiuron	34014-18-1	16 11		5	8	2	17 12		17 17		5	12
Dibenzo(a,h)anthracene	53-70-3	21 21		6	7	1	23 23		23 23		11	12
Dichlorvos	62-73-7	48 31		4	15	3	49 42		49 49		37	12
Endrin	72-20-8	58 56		7			58 57		58 57		46	12
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	35 34		7	1	1	37 37		37 37		25	12
Hydrogen cyanide	74-90-8	29 29 12			2	2	32 31		32 32		20	12
Dibenzofuran	132-64-9	15 14		8			17 17		17 17		6	11
Chromium III, insoluble salts	16065-83-1	117	117	17	11	7	118	116	118	118	107	11
Cyanide, free	57-12-5	46 42		7	9	6	48 47		48 48		37	11
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	48 47		4			55 55		55 55		44	11
2,4-Dimethylphenol	105-67-9	24 23		7	4	3	26 23		26 26		16	10
1-Chlorobutane	109-69-3	14 14		2			14 14		14 14		4	10
Atrazine	1912-24-9	34 32		5			37 37		37 37		27	10
Acephate	30560-19-1	25 23		4	5	2	30 27		30 30		20	10
Aldrin	309-00-2	44 43		7			44 43		44 44		34	10
Uranium, natural	7440-61-1	58 47		7	37	10	59 51		59 59		49	10
Tetraethyl lead	78-00-2	97 42		3	56	4	99 57		99 99		89	10
Diquat	85-00-7	31 20		4	15	2	32 22		32 32		22	10
beta-Chloronaphthalene	91-58-7	22 19		6	5	2	24 23		24 24		14	10
1,2-Dibromo-3-chloropropane	96-12-8	23 22		5	1	1	30 30		30 30		20	10
Prometon	1610-18-0	26 20		5	5	1	28 25		28 28		19	9
Hexazinone	51235-04-2	28 16		3	8	1	29 17		29 29		20	9

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
gamma-Hexachlorocyclohexane	58-89-9	82	73 12		11	4	82	77	82	82	73	9
Dieldrin	60-57-1	45	44	7			45	45	45	45	36	9
1,1,1,2-Tetrachloroethane	630-20-6	13	12	4	2	2	19	19	19	19	10	9
Heptachlor	76-44-8	54	53	7			54	54	54	54	45	9
Acenaphthene	83-32-9	35	34	7			37	37	37	37	28	9
2-Chlorophenol	95-57-8	34	33	6			36	34	36	36	27	9
1,2,3-Trichloropropane	96-18-4	13	12	4			20	20	20	20	11	9
Nitrobenzene	98-95-3	36	30	5	6	1	37	36	37	37	28	9
Glyphosate	1071-83-6	31	23	4	14	2	33	27	33	32	25	8
Bis(chloroethyl)ether	111-44-4	18	17	4			20	19	20	20	12	8
Pyrene	129-00-0	28	28	7			30	30	30	30	22	8
Zinc phosphide	1314-84-7	18	11	3	4	1	19	10	19	19	11	8
Trifluralin	1582-09-8	25	23	5			27	26	27	27	19	8
Benzo[g,h,i]perylene	191-24-2	14	14	5			19	19	19	19	11	8
Oxadiazon	19666-30-9	11	11	3			14	13	14	14	6	8
Pentabromodiphenyl ether	32534-81-9	12	9 4		5	3	14	12	14	14	6	8
Hexachloroethane	67-72-1	38	36	7	1	1	39	36	39	39	31	8
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	37	36	7			37	37	37	37	29	8
2-Nitropropane	79-46-9	43	38	7	13	7	43	40	43	43	35	8
Heptachlor epoxide	1024-57-3	45	44	6			45	45	45	45	38	7
Azobenzene	103-33-3	16	15	4			17	17	17	17	10	7
Propachlor	1918-16-7	13	11	5			14	13	14	14	7	7
Aluminum phosphide	20859-73-8	19	5 3		16	1	19	17	19	19	12	7
Iprodione	36734-19-7	9	9 3				14	13	14	14	7	7
2,6-Dinitrotoluene	606-20-2	19	18	4			20	20	20	20	13	7
N-Nitroso-di-N-propylamine	621-64-7	22	21	4			23	23	23	23	16	7
Phosphine	7803-51-2	16	13 4		8	2	16	8	16	16	9	7
Creosote	8001-58-9	31	22	9	12	5	32	22	32	32	25	7
Coke oven emissions	8007-45-2	74	61	9	16	7	77	68	77	77	70	7
2,4,5-Trichlorophenol	95-95-4	18	17	5			21	20	21	21	14	7
Acetophenone	98-86-2	11	11	5			14	14	14	14	7	7

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (*Cont.*)

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Quinone	106-51-4	10	10	4	3	3	11	11	11	11	5	6
Dacthal	1861-32-1	20	15	5			20	19	20	20	14	6
Fluoranthene	206-44-0	30	30	6	8	2	32	31	32	32	26	6
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	31	30	6			31	31	31	31	25	6
beta-Hexachlorocyclohexane	319-85-7	29	28	6			29	29	29	29	23	6
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	30	29	6			30	30	30	30	24	6
Chlorobenzilate	510-15-6	12	10	5			12	11	12	12	6	6
N-Nitrosodiphenylamine	86-30-6	27	26	5	11	1	29	29	29	29	23	6
Fluorene	86-73-7	17	17	6			19	19	19	19	13	6
Acenaphthylene	208-96-8	18	18	6			20	20	20	20	15	5
Metribuzin	21087-64-9	15	15	4			16	16	16	16	11	5
Naled	300-76-5	17	11	2	7	2	18	14	18	16	13	5
Bayleton	43121-43-3	13	12	4			15	15	15	15	10	5
Cyanogen	460-19-5	5	3				6	5	6	6	1	5
Potassium silver cyanide	506-61-6	13	12	3	3	2	14	13	14	14	9	5
Silver cyanide	506-64-9	29	12	2	12	3	29	16	29	29	24	5
Ethyl carbamate	51-79-6	12	12	6	2	2	12	12	12	12	7	5
Fluridone	59756-60-4	7	3		4	1	8	7	8	8	3	5
N-Nitrosodimethylamine	62-75-9	15	14	4			16	16	16	16	11	5
Methoxychlor	72-43-5	62	62	7	1	1	63	63	63	63	58	5
Cacodylic acid	75-60-5	9	9	5			11	11	11	11	6	5
Benzidine	92-87-5	22	18	6			23	22	23	23	18	5
Chlorpropham	101-21-3	7	3				8	8	8	8	4	4
Bis(2-chloroethoxy)methane	111-91-1	13	12	4			14	14	14	14	10	4
Alachlor	15972-60-8	19	19	5			19	19	19	19	15	4
Disulfoton	298-04-4	25	25	4			25	25	25	25	21	4
Metolachlor	51218-45-2	9	4				9	9	9	9	5	4
Metalaxyl	57837-19-1	9	2				10	10	10	10	6	4
Arsine	7784-42-1	11	10	3	4	1	11	4	11	11	7	4
Toxaphene	8001-35-2	24	22	6	2	1	24	24	24	24	20	4
Ametryn	834-12-8	6	5				6	6	6	6	2	4

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Benzyl chloride	100-44-7	6 6 5					7 6		7 7		4	3
p-Chloroaniline	106-47-8	7 6 3					8 8		8 8		5	3
Propargyl alcohol	107-19-7	17 16		5	6	3	17 17		17 17		14	3
Maleic anhydride	108-31-6	21 21		6	4	3	21 18		21 21		18	3
Bis(2-chloroisopropyl) ether	108-60-1	14	13	4			14	14	14	14	11	3
3,3-Dimethylbenzidine	119-93-7	13 12		3	1	1	14 13		14 14		11	3
Thallic oxide	1314-32-5	5 5 4					6 6		6 6		3	3
Sodium diethyldithiocarbamate	148-18-5	7 7 3			2	2	7 7		7 7		4	3
Merphos	150-50-5	6 6 2					6 6		6 6		3	3
Oryzalin	19044-88-3	13 9 3			5	1	13	13	13	13	10	3
Carbonyl sulfide	463-58-1	4 4 2					4 4		4 4		1	3
Carboxin	5234-68-4	5 5 2					5 5		5 5		2	3
Copper cyanide	544-92-3	20 12		2	5	1	20 12		20 20		17	3
Zinc cyanide	557-21-1	9 8 2			1	1	9 8		9 9		6	3
2,6-Dimethylphenol	576-26-1	12 12		3	2	1	12 11		12 12		9	3
2,3,4,6-Tetrachlorophenol	58-90-2	5 5 3					6 6		6 6		3	3
technical Hexachlorocyclohexane (t-HCH)	608-73-1	4 4 2					4 4		4 4		1	3
Ally	74223-64-6	4 3 1			2	1	6 6		6 6		3	3
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	12	4			13	13	13	13	10	3
Tetrachlorovinphos	961-11-5	8 8 2					8 8		8 8		5	3
N-Nitrosodiethanolamine	1116-54-7	4 2 2					4 2		4 2		2	2
Zineb	12122-67-7	3 3 2			2	2	3 3		3 3		1	2
Captan	133-06-2	9 9 4			3	3	10	10	10	10	8	2
Propazine	139-40-2	3 3 2					3 3		3 3		1	2
Endothall	145-73-3	8 8 2					8 8		8 8		6	2
Ethyleneimine	151-56-4	5 5 3					5 5		5 5		3	2
Paraquat	1910-42-5	8 6 3					8 8		8 8		6	2
Vernam	1929-77-7	7 7 4					7 7		7 7		5	2
Butylate	2008-41-5	5 5 3					5 5		5 5		3	2
Molinate	2212-67-1	5 5 3					5 5		5 5		3	2
Fenamiphos	22224-92-6	6 6 3					6 6		6 6		4	2

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Methyl parathion	298-00-0	7 6 3					7 7		7 7		5	2
Amitraz	33089-61-1	3 3 2					3 3		3 3		1	2
4-Aminopyridine	504-24-5	15 15		2			16 16		16 16		14	2
Vinclozolin	50471-44-8	2 2 1					4 4		4 4		2	2
Propylene glycol monoethyl ether	52125-53-8	6 6 2			2	1	6 6		6 6		4	2
Nitroguanidine	556-88-7	5 5 3			3	3	5 5		5 5		3	2
Ethion	563-12-2	6 5 3					6 6		6 6		4	2
Prometryn	7287-19-6	4 4 2					4 4		4 4		2	2
Sethoxydim	74051-80-2	2 1 1					3 3		3 3		1	2
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4	4 4 4					4 4		4 4		2	2
Isoxaben	82558-50-7	2 2 1					4 3		4 4		2	2
Terbutryn	886-50-0	3 3 2					3 3		3 3		1	2
Diphenamid	957-51-7	3 3 3					3 3		3 3		1	2
2,4-Diaminotoluene	95-80-7	8 8 2					8 8		8 8		6	2
1,3,5-Trinitrobenzene	99-35-4	6 5 3			3	1	7 7		7 7		5	2
1,4-Dibromobenzene	106-37-6	2 2 1					2 2		2 2		1	1
Allyl chloride	107-05-1	4 4 2					4 4		4 4		3	1
Adiponitrile	111-69-3	4 4 3					4 4		4 4		3	1
Methacrylonitrile	126-98-7	2 2 2					2 2		2 2		1	1
Chloramben	133-90-4	6 6 3					6 6		6 6		5	1
Bidrin	141-66-2	2 2 2					2 2		2 2		1	1
Napropamide	15299-99-7	2 2 2					2 2		2 2		1	1
Benomyl	17804-35-2	6 6 2					6 4		6 6		5	1
Benefin	1861-40-1	15 13		4			16 16		16 16		15	1
p,p'-Dibromodiphenyl ether	2050-47-7	2 2 2					2 2		2 2		1	1
Pronamide	23950-58-5	8 8 4					8 8		8 8		7	1
Norflurazon	27314-13-2	3 3 2					3 3		3 3		2	1
Oxyfluorfen	42874-03-3	3 3 3					4 4		4 4		3	1
2-Chloroacetophenone	532-27-4	10 10		6	1	1	10 10		10 10		9	1
Thallium acetate	563-68-8	4 4 3					4 4		4 4		3	1
Parathion	56-38-2	8 7 4					8 8		8 8		7	1

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NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Terbacil	5902-51-2	3 3 3					3 3		3 3		2	1
Dimethoate	60-51-5	11 10		4			11 11		11 11		10	1
Pentachlorobenzene	608-93-5	4 4 4			1	1	4 4		4 4		3	1
Sodium fluoroacetate	62-74-8	1 1 1					2 2		2 2		1	1
Nonabromodiphenyl ether	63936-56-1	3 3 2					3 3		3 3		2	1
Chlorsulfuron	64902-72-3	1 1 1			1	1	2 2		2 2		1	1
Hexachlorophene	70-30-4	24 19		6	12	5	24 13		24 24		23	1
Phosmet	732-11-6	5 4 3					5 4		5 5		4	1
Dalapon (sodium salt)	75-99-0	14	14	4			14	14	14	14	13	1
Paclobutrazol	76738-62-0	7 7 1					7 6		7 7		6	1
Dimethyl sulfate	77-78-1	4 4 3			2	1	4 4		4 4		3	1
Merphos oxide	78-48-8	1 1 1					2 2		2 2		1	1
Methyl chlorocarbonate	79-22-1	4 2 2			3	1	4 3		4 4		3	1
Rotenone	83-79-4	5 4 2			2	1	6 6		6 6		5	1
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	16	4			17	17	17	17	16	1
2,4,5-Trichlorophenoxyacetic acid	93-76-5	16	16	4			17	17	17	17	16	1
Fonofos	944-22-9	3 3 3					3 3		3 3		2	1
1,2,4,5-Tetrachlorobenzene	95-94-3	4 4 4			1	1	4 4		4 4		3	1
Benzotrichloride	98-07-7	3 3 2					3 3		3 3		2	1
Picloram	1918-02-1	10 10		3	2	1	10 10		10 10		10	
Captafol 2425-06	-1											
Dodine	2439-10-3	3 2 2					3 2		3 3		3	
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Express	101200-48-0											
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	10	10 3		10	4	10 5		10	10	10	
Methamidophos	10265-92-6											
N-Nitroso-N-methylethylamine	10595-95-6	1 1 1					1 1		1 1		1	
Monchloramine 10599-90	-3											
Allyl alcohol	107-18-6	1 1 1					1 1		1 1		1	
Chloromethyl methyl ether	107-30-2											
Furan	110-00-9	1 1 1					1 1		1 1		1	

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Endosulfan	115-29-7	3 3 2					3 3		3 3		3	
Aldicarb	116-06-3	3 3 3					3 3		3 3		3	
Nickel subsulfide	12035-72-2											
Thallium selenite	12039-52-0											
Dimethyl terephthalate (DMT)	120-61-6	2 2 1					2 2		2 2		2	
2,4-Dichlorophenol	120-83-2											
Propham	122-42-9											
1,2-Diphenylhydrazine	122-66-7	1 1 1					1 1		1 1		1	
p-Chlorophenyl methyl sulfide	123-09-1											
Maleic hydrazide	123-33-1	1 1 1					1 1		1 1			
Maneb	12427-38-2	6 6 1					6 6		6 6		6	
Chlordane (technical)	12789-03-6	1 1 1					1 1		1 1		1	
4,6-Dinitro-o-cyclohexyl phenol	131-89-5											
Nickel carbonyl	13463-39-3											
Quinalphos	13593-03-8											
Phenmedipham	13684-63-4											
Aramite	140-57-8	2 2 2					2 2		2 2		2	
Diisopropyl methylphosphonate	1445-75-6											
Nitrate	14797-55-8	1 1 1					2 2		2 2			
Nitrite	14797-65-0											
Carbofuran	1563-66-2	4 4 3					4 4		4 4		4	
Alar	1596-84-5											
Aldicarb sulfone	1646-88-4	3 3 3					3 3		3 3		3	
Ethephon 16672-87	-0											
Bromoxynil 1689-84	-5											
Bromoxynil octanoate	1689-99-2	3 3 1					3 3		3 3		3	
Isopropyl methyl phosphonic acid	1832-54-8											
Nitrapyrin	1929-82-4	2 2 2			1	1	2 2		2 2		2	
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	3	3	2			3	3	3	3	3	
Fluometuron	2164-17-2	1 1 1					1 1		1 1		1	

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Cyanazine	21725-46-2	4 4 3					4 4		4 4			
Triallate	2303-17-5	1 1 1					1 1		1 1		1	
Phosolone	2310-17-0											
Propargite	2312-35-8											
Oxamyl	23135-22-0	5 5 3					5 5		5 5		5	
Thiophanate-methyl	23564-05-8											
Mirex 2385-85	-5											
Mepiquat chloride	24307-26-4											
Pentachlorocyclopentadiene	25329-35-5											
Thiobencarb	28249-77-6	1 1 1					1 1		1 1		1	
Pirimiphos-methyl 29232-93	-7											
Octabromodiphenyl ether	32536-52-0	2 2 1					2 2		2 2		2	
Linuron	330-55-2	1 1 1					1 1		1 1		1	
Asulam	3337-71-1											
Diazomethane	334-88-3											
Isopropalin	33820-53-0	1 1 1					1 1		1 1		1	
Acetochlor	34256-82-1											
Diflubenzuron	35367-38-5											
Imazalil	35554-44-0											
Hexabromodiphenyl ether	36483-60-0											
Tetraethyldithiopyrophosphate	3689-24-5	4 4 3					4 4		4 4		4	
Fosetyl-al	39148-24-8											
Danitol	39515-41-8											
Tetrabromodiphenyl ether	40088-47-9											
Difenzoquat 43222-48	-6											
Tribromodiphenyl ether	49690-94-0											
Formaldehyde	50-00-0											
Chlorine cyanide	506-77-4											
t-Butyl chloride	507-20-0	1 1 1					1 1		1 1			
Pydrin	51630-58-1	14 13		4			14 14		14 14		14	
o-Dinitrobenzene	528-29-0											

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Barium cyanide	542-62-1	6 1 1			6	1	6 3		6 6		6	
Bis(chloromethyl) ether	542-88-1											
N-Nitrosodiethylamine	55-18-5	1 1 1					1 1		1 1		1	
Carbosulfan	55285-14-8											
Dimethipin 55290-64	-7											
Strychnine	57-24-9	7 6 1					7 7		7 7		7	
beta-Propiolactone	57-57-8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											
Tridiphane	58138-08-2											
Calcium cyanide	592-01-8	2 2 2					2 2		2 2		2	
Vinyl bromide	593-60-2											
Dibromodichloromethane	594-18-3											
1,1,2-Trichloropropane 598-77	-6											
Propiconazole	60207-90-1	0					4	3	4	4		
Furmecyclox	60568-05-0											
1,2,4-Tribromobenzene	615-54-3	2 2 1					2 2		2 2		2	
Acifluorfen, sodium	62476-59-9	2 2 2					2 2		2 2		2	
Methyl isocyanate	624-83-9											
Selenourea	630-10-4											
Diethyl sulfate	64-67-5	1 1 1					1 1		1 1			
Avermectin B1	65195-55-3	4 4 2					4 4		4 4		4	
Thallium carbonate	6533-73-9	1 1 1					1 1		1 1		1	
Cyromazine 66215-27	-8											
Flutolanil	66332-96-5	1 1 1					2 2		2 2			
Tralomethrin	66841-25-6	3 3 1			1	1	6 6		6 6			
Prochloraz	67747-09-5											
Cyhalothrin/karate 68085-85	-8											
Fluvalinate	69409-94-5	2 2 1					2 2		2 2		2	
Haloxypop-methyl	69806-40-2											
Propanil	709-98-8											
Fomasafen	72178-02-0											

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (Cont.)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
Apollo	74115-24-5											
Radium 226,228	7440-14-4											
Thallium (I) sulfate	7446-18-6	1 1	1				1 1		1 1		1	
Selenium sulfide	7446-34-6	27 27		1			27 27		27 27		27	
Propyleneimine	75-55-8											
Bromotrichloromethane	75-62-7	1 1	1				1 1		1 1			
Glycidaldehyde 765-34	-4											
Assure	76578-14-8											
Glufosinate-ammonium 77182-82	-2											
Trichlorocyclopentadiene	77323-84-3											
Lactofen	77501-63-4											
Aluminum sulfamate	7773-06-0	9 8	3		1	1	9 8		9 9		9	
Fluorine, soluble fluoride	7782-41-4											
Thallium chloride	7791-12-0	1 1	1				1 1		1 1		1	
Savey	78587-05-0											
Harmony 79277-27	-3											
Demeton	8065-48-3											
Imazaquin	81335-37-7	0					2	2	2	2		
Pursuit	81335-77-5											
Warfarin	81-81-2	9 6	2				9 9		9 9		9	
Triasulfuron	82097-50-5											
Bipenthrin	82657-04-3	4 3	2		2	1	12	10	12	12		
Pentachloronitrobenzene	82-68-8	12 12		5			12 12		12 12		12	
Londax	83055-99-6											
Ethylphthalyl ethylglycolate (EPEG)	84-72-0											
Phthalic anhydride	85-44-9											
Nustar	85509-19-9											
Hexachlorobutadiene	87-68-3											
Hexabromobenzene	87-82-1											
Systhane	88671-89-0	0					1	1	1	1		
Dinoseb	88-85-7	13 13		4			13 13		13 13		13	

TABLE A-3k. HMIRS C&Z-prefixed Document Group Numbers: IRIS Chemicals of Interest Ranked by Their Number of Associations with HMIRS C&Z-prefixed Document Group Numbers (Bold Font) (*Cont.*)

NAME	CASRN	Stock No. Entries	Unique Stock No. Entries	Unique 1st 4 Stock No. Entries	Item Name Entries	Unique Item Name Entries	Product Identity Entries	Unique Product Identity Entries	Doc Group Entries	Unique Doc Group Entries	B Doc Group Entries	C&Z Doc Group Entries
ortho-Anisidine	90-04-0											
Chlorimuron-ethyl	90982-32-4											
N-Nitroso-di-n-butylamine	924-16-3	2 2	2				2 2		2 2		2	
N-Nitrosopyrrolidine	930-55-2	1 1	1				1 1		1 1		1	
p-Chlorophenyl methyl sulfoxide	934-73-6											
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7 7	3				7 7		7 7		7	
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5											
Methidathion	950-37-8											
3,4-Dimethylphenol	95-65-8	3 2	1		3	1	3 1		3 3			
p-Chlorophenyl methyl sulfone	98-57-7											

APPENDIX A-4

Ranking of the USEPA IRIS Chemicals of Interest Using Selected Parameters From the U.S. Air Force's ERPIMS

TABLE A-4a.	Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected
TABLE A-4b.	Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected
TABLE A-4c.	Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected
TABLE A-4d.	Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil Samples in Which They Were Detected
TABLE A-4e.	Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected
TABLE A-4f.	Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected
TABLE A-4g.	Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected
TABLE A-4h.	Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected

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TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Dichloromethane 75-09-	2	102	1196	38619	11818	24092	1315	597	797
Trichloroethylene 79-01-	6	99	1141	126567	5624	115683	3219	1809	232
Ethylbenzene 100-41	-4	99	1059	37092	7192	27159	2368	259	114
Naphthalene 91-20-	3	98	1064	36497	10334	24821	107	551	684
Arsenic, inorganic	7440-38-2	97	1448	66457	35929	24614	0	2179	3735
Manganese 7439-96	-5	91	1292	79631	24671	45710	0	5511	3739
Selenium and compounds	7782-49-2	91	1097	29852	12918	14537	0	989	1408
Cadmium 7440-43	-9	89	1191	33531	21455	8527	0	878	2671
Copper 7440-50	-8	88	1208	50289	29511	15254	0	1880	3644
Phenanthrene 85-01-	8	88	799	16919	11441	3617	1	287	1573
cis-1,2-Dichloroethylene 156-59	-2	86	933	91436	3462	84061	1896	1741	276
Nickel 7440-02	-0	86	1210	57039	26844	25259	0	1505	3431
Tetrachloroethylene 127-18	-4	85	846	49859	3733	43377	2081	576	92
Mercury, elemental	7439-97-6	85	981	25238	15513	6924	0	687	2114
Cumene 98-82-	8	85	599	20364	3059	16945	104	194	62
Silver 7440-22	-4	84	816	14338	7198	5106	0	715	1319
Beryllium and compounds	7440-41-7	82	948	32338	22936	6267	0	571	2564
Fluoranthene 206-44	-0	82	804	19046	13969	2891	1	315	1870
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	82	851	14775	6056	7233	0	418	1068
1,4-Dichlorobenzene 106-46	-7	81	516	17803	1362	15454	566	244	177
Pyrene 129-00	-0	80	788	17995	13293	2584	1	271	1846
Fluorene 86-73-	7	80	558	8658	4481	3372	0	195	610
Antimony 7440-36	-0	79	816	17502	10026	5518	0	969	989
Chrysene 218-01	-9	79	733	16550	12649	1867	0	235	1799
Benzo [a] pyrene	50-32-8	79	703	16200	12519	1789	0	206	1686
Benzo(a)anthracene 56-55-	3	79	693	15271	11639	1795	0	214	1623
Indeno[1,2,3-cd]pyrene 193-39	-5	78	604	12794	9663	1560	0	226	1345
1,1-Dichloroethane 75-34-	3	77	528	26976	735	25174	793	248	26
Benzo(b)fluoranthene 205-99	-2	77	698	16074	12327	1719	0	254	1774

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Benzo[g,h,i]perylene 191-24	-2	77	610	12001	8937	1537	0	206	1321
1,2-Dichloroethane 107-06	-2	76	546	17299	564	15973	579	147	36
Chlorobenzene 108-90	-7	75	551	31976	6130	24315	689	512	330
Acenaphthene 83-32-	9	75	513	7992	4457	2777	1	175	582
trans-1,2-Dichloroethylene 156-60	-5	74	606	34809	945	32883	579	351	51
1,2-Dichlorobenzene 95-50-	1	74	473	16996	1071	14952	592	238	143
Anthracene 120-12	-7	73	548	9520	6505	1980	1	174	860
Benzo(k)fluoranthene 207-08	-9	70	583	12391	9258	1505	0	215	1413
1,3-Dichlorobenzene 541-73	-1	70	388	10787	596	9324	565	221	81
1,1,1-Trichloroethane 71-55-	6	69	355	9644	521	8637	397	83	6
1,2,4-Trichlorobenzene 120-82	-1	68	353	7296	772	5828	383	209	104
Ethyl chloride	75-00-3	67	327	9386	363	8422	435	142	24
Styrene 100-42	-5	67	308	6067	558	4652	679	132	46
Carbon tetrachloride	56-23-5	66	329	14195	540	12889	619	125	22
Dibutyl phthalate	84-74-2	66	420	4297	1533	2313	0	193	258
Dichlorodifluoromethane 75-71-	8	65	293	7534	338	5998	1045	125	28
Dibenzo(a,h)anthracene 53-70-	3	65	470	7527	5346	1314	0	159	708
Bromodichloromethane 75-27-	4	65	369	7027	288	6216	322	178	23
Carbon disulfide	75-15-0	64	539	9796	1179	7482	726	146	263
Methyl tert-butyl ether	1634-04-4	63	436	13791	684	12361	374	347	25
Trichlorofluoromethane 75-69-	4	63	353	9856	1221	7542	944	114	35
Diethyl phthalate	84-66-2	63	316	2611	416	1998	0	115	82
1,1,2-Trichloroethane 79-00-	5	62	305	9703	460	8694	401	121	27
Acenaphthylene 208-96	-8	62	330	4508	2363	1713	0	120	312
Bromomethane 74-83-	9	59	370	6840	658	5606	410	143	23
Dibromochloromethane 124-48	-1	59	283	6241	343	5403	308	164	23
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	58	372	7051	5239	464	0	196	1152
1,2-Dichloropropane 78-87-	5	57	255	8358	319	7584	326	107	22
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	56	288	4296	2698	452	0	49	1097
Dibenzofuran 132-64	-9	54	267	3710	1681	1558	0	123	348
Butyl benzyl phthalate	85-68-7	54	249	2002	479	1289	0	112	122
1,1,2,2-Tetrachloroethane 79-34-	5	52	196	6782	380	5766	457	143	36

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Bromoform 75-25-	2	52	248	6258	549	5158	308	186	57
Dieldrin 60-57-	1	49	259	4043	2426	949	0	209	459
Molybdenum 7439-98	-7	48	465	14189	6094	6594	0	756	745
Aldrin 309-00	-2	47	181	1294	598	355	0	127	214
Hexachlorobutadiene 87-68-	3	46	202	6258	377	5277	334	204	66
2,4-Dimethylphenol 105-67	-9	46	161	1890	128	1615	0	106	41
4-Methylphenol 106-44	-5	45	189	2024	195	1557	0	114	158
Heptachlor epoxide	1024-57-3	44	209	1624	794	447	0	135	248
Heptachlor	76-44-8	44	184	1219	509	372	0	141	197
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	44	155	1200	417	422	0	161	200
beta-Hexachlorocyclohexane 319-85	-7	43	162	1226	385	499	0	160	182
gamma-Hexachlorocyclohexane 58-89-	9	42	166	1163	330	495	0	187	151
Arochlor 1254	11097-69-1	41	162	2348	1883	47	0	37	381
2-Methylphenol 95-48-	7	40	138	1669	142	1380	0	106	41
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	39	177	1296	488	490	0	140	178
Methoxychlor 72-43-	5	39	165	1134	563	209	0	116	246
N-Nitrosodiphenylamine 86-30-	6	37	99	1461	224	1086	0	94	57
Endrin 72-20-	8	37	152	1163	538	273	0	122	230
Pentachlorophenol 87-86-	5	36	116	1739	123	1480	0	95	41
1,2,3-Trichloropropane 96-18-	4	34	96	4453	255	4072	0	104	22
o-Chlorotoluene 95-49-	8	33	121	4697	281	4287	0	105	24
Cyanide, free	57-12-5	33	215	2765	1109	1222	0	180	254
1,2-Dibromo-3-chloropropane 96-12-	8	31	102	4477	264	4076	0	105	32
2,4-Dinitrotoluene 121-14	-2	30	97	1397	262	988	0	96	51
N-Nitroso-di-N-propylamine 621-64	-7	29	70	1157	51	976	0	93	37
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	27	54	540	423	59	0	5	53
2,4-Dichlorophenol 120-83	-2	26	73	1197	36	1033	0	92	36
Nitrobenzene 98-95-	3	26	56	1159	40	990	0	94	35
Isophorone 78-59-	1	26	63	1155	59	964	0	96	36
Bromochloromethane 74-97-	5	24	78	4762	370	4190	70	109	23
2,6-Dinitrotoluene 606-20	-2	24	70	1204	72	1002	0	92	38
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	23	98	2224	55	930	1238	1	0

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	23	73	1822	1651	62	0	2	107
p-Nitrophenol 100-02	-7	23	61	1538	52	1160	0	202	124
2-Chlorophenol 95-57-	8	23	66	1356	30	1195	0	94	37
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	22	72	1763	1594	63	0	4	102
p-Chloroaniline 106-47	-8	21	62	1177	70	979	0	93	35
2,4,6-Trichlorophenol 88-06-	2	21	49	1115	34	951	0	92	38
1,1,1,2-Tetrachloroethane 630-20	-6	20	83	21450	259	16661	0	4444	86
Bis(chloroethyl)ether 111-44	-4	20	50	1155	36	986	0	92	41
beta-Chloronaphthalene 91-58-	7	19	46	1200	77	948	0	92	83
2,4,5-Trichlorophenol 95-95-	4	19	43	1111	31	951	0	92	37
Hexachlorobenzene 118-74	-1	18	51	1150	80	934	0	94	42
Arochlor 1016	12674-11-2	18	39	373	156	41	0	27	149
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	18	52	185	110	39	0	11	25
Hexachloroethane 67-72-	1	17	44	1132	62	941	0	92	37
Chromium (VI)	18540-29-9	16	103	1783	676	1051	0	22	34
2,4-Dinitrophenol 51-28-	5	16	46	1118	25	966	0	92	35
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	32	117	39	63	0	7	8
Bis(2-chloroethoxy)methane 111-91	-1	15	40	1096	29	940	0	92	35
Vinyl acetate	108-05-4	15	31	390	15	65	308	2	0
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	14	24	132	50	17	0	23	42
1,4-Dioxane 123-91	-1	13	51	1837	58	1376	393	2	8
2,4,5-Trichlorophenoxyacetic acid	93-76-5	13	41	127	31	70	0	1	25
Dalapon (sodium salt)	75-99-0	13	20	89	33	37	0	8	11
Dicamba 1918-00	-9	13	25	57	31	22	0	2	2
Bis(2-chloroisopropyl) ether	108-60-1	12	37	1104	26	948	0	92	38
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	34	121	66	31	0	5	19
Acetophenone 98-86-	2	12	34	101	25	67	6	0	3
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	10	37	187	150	4	0	6	27
Dinoseb 88-85-	7	10	13	48	36	12	0	0	0
Toxaphene 8001-35	-2	9	17	276	38	38	0	101	99
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	8	43	786	258	500	0	10	18
Caprolactam 105-60	-2	8	23	172	28	138	0	6	0

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
1,1-Biphenyl 92-52-	4	8	14	75	43	32	0	0	0
Polychlorinated biphenyls	1336-36-3	7	10	1210	1197	8	0	0	5
N-Nitrosodimethylamine 62-75-	9	6	28	397	3	388	0	5	1
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	6	22	330	125	205	0	0	0
2,4,6-Trinitrotoluene 118-96	-7	6	28	270	225	35	0	2	8
Benzaldehyde 100-52	-7	6	9	44	39	2	0	0	3
Pyridine 110-86	-1	6	7	27	23	3	0	0	1
Aniline 62-	53-3	6	6	12	4	6	0	0	2
o-Dinitrobenzene 528-29	-0	5	46	4493	1908	2404	0	125	56
n-Heptane 142-82	-5	5	19	638	0	5	633	0	0
3-Methylphenol 108-39	-4	5	16	52	8	44	0	0	0
2,3,4,6-Tetrachlorophenol 58-90-	2	5	7	13	1	12	0	0	0
1,3,5-Trinitrobenzene 99-35-	4	4	5	23	11	10	0	0	2
Acrylonitrile 107-13	-1	4	10	19	3	15	0	0	1
Benzidine 92-87-	5	4	4	9	4	2	0	0	3
Benzyl chloride	100-44-7	3	4	338	0	0	338	0	0
Azobenzene 103-33	-3	3	3	4	1	2	0	0	1
Vanadium pentoxide	1314-62-1	2	8	169	15	154	0	0	0
Uranium, natural	7440-61-1	2	8	169	15	154	0	0	0
Acetaldehyde 75-07-	0	2	3	56	0	51	5	0	0
Ethyl acetate	141-78-6	2	8	43	26	17	0	0	0
Ethylene glycol	107-21-1	2	9	34	25	8	0	1	0
Chlorobenzilate 510-15	-6	2	4	14	6	8	0	0	0
Diphenylamine 122-39	-4	2	3	10	0	10	0	0	0
Dibromodichloromethane 594-18	-3	2	2	5	0	5	0	0	0
Formic acid	64-18-6	2	2	5	0	5	0	0	0
N-Nitrosodiethylamine 55-18-	5	2	3	4	0	4	0	0	0
Pentachloronitrobenzene 82-68-	8	1	1	138	58	3	0	10	67
Formaldehyde 50-00-	0	1	1	47	0	47	0	0	0
Chloramben 133-90	-4	1	13	43	13	30	0	0	0
Hydrazine/hydrazine sulfate	302-01-2	1	3	17	7	8	0	0	2
Methanol 67-56-	1	1	1	14	0	13	1	0	0

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Picloram 1918-02	-1	1	9	10	3	6	0	0	1
Chlorine 7782-50	-5	1	1	9	0	0	0	9	0
Chromium III, insoluble salts	16065-83-1	1	2	7	0	7	0	0	0
Atrazine 1912-24	-9	1	1	6	1	3	0	2	0
Dacthal 1861-32	-1	1	4	5	1	4	0	0	0
Methacrylonitrile 126-98	-7	1	2	3	0	3	0	0	0
N-Nitroso-di-n-butylamine 924-16	-3	1	2	2	0	2	0	0	0
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1	0	1	0	0	0
Mirex 2385-85	-5	1	1	1	1	0	0	0	0
Pentachlorobenzene 608-93	-5	1	1	1	1	0	0	0	0
Chlorodifluoromethane 75-45-	6	1	1	1	0	1	0	0	0
N-Nitrosopyrrolidine 930-55	-2	1	1	1	1	0	0	0	0
Simazine 122-34	-9			4	4	0	0	0	0
Propylene glycol	57-55-6			2	2	0	0	0	0
Isobutyl alcohol	78-83-1			2	0	1	0	1	0
Allyl chloride	107-05-1			1	0	0	1	0	0
Cyclohexanone 108-94	-1			1	0	1	0	0	0
Asbestos 1332-21	-4			1	1	0	0	0	0
Captafol 2425-06	-1								
Dodine 2439-10	-3								
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7								
Nitric Oxide	10102-43-9								
Thallium nitrate	10102-45-1								
Express 101200-4	8-0								
Chlorpropham 101-21	-3								
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1								
Methylene Diphenyl Diisocyanate (monomeric MDI) 101-68	-8								
Methamidophos 10265-92	-6								
di(2-ethylhexyl)Adipate 103-23	-1								
Resmethrin 10453-86	-8								
Monchloramine 10599-90	-3								
1,4-Dibromobenzene 106-37	-6								

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Quinone 106-51	-4								
1,2-Epoxybutane 106-88	-7								
Epichlorohydrin 106-89	-8								
Ethylene diamine	107-15-3								
Glyphosate 1071-83	-6								
Allyl alcohol	107-18-6								
Propargyl alcohol	107-19-7								
Chloromethyl methyl ether	107-30-2								
Propylene glycol monomethyl ether	107-98-2								
Maleic anhydride	108-31-6								
m-Phenylenediamine 108-45	-2								
Cyclohexylamine 108-91	-8								
1-Chlorobutane 109-69	-3								
2-Methoxyethanol 109-86	-4								
Furan 110-00	-9								
2-Ethoxyethanol 110-80	-5								
N-Nitrosodiethanolamine 1116-54	-7								
Adiponitrile 111-69	-3								
Baygon 114-26	-1								
Endosulfan 115-29	-7								
Aldicarb 116-06	-3								
Decabromodiphenyl ether (DBDPE)	1163-19-5								
3,3-Dimethylbenzidine 119-93	-7								
Nickel subsulfide	12035-72-2								
Thallium selenite	12039-52-0								
Dimethyl terephthalate (DMT)	120-61-6								
Zineb 12122-67	-7								
Triethylamine 121-44	-8								
N,N-Dimethylaniline 121-69	-7								
Malathion 121-75	-5								
Propham 122-42	-9								
1,2-Diphenylhydrazine 122-66	-7								

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
p-Chlorophenyl methyl sulfide	123-09-1								
Hydroquinone 123-31	-9								
Maleic hydrazide	123-33-1								
Maneb 12427-38	-2								
Dimethylamine 124-40	-3								
Chlordane (technical)	12789-03-6								
Antimony trioxide	1309-64-4								
Thallic oxide	1314-32-5								
Zinc phosphide	1314-84-7								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5								
Tricresol 1319-77	-3								
Captan 133-06	-2								
Folpet 133-07	-3								
Nickel carbonyl	13463-39-3								
Quinalphos 13593-03	-8								
Phenmedipham 13684-63	-4								
Thiram 137-26	-8								
Propazine 139-40	-2								
Aramite 140-57	-8								
Bidrin 141-66	-2								
Triethylene glycol monobutyl ether	143-22-6								
Sodium cyanide	143-33-9								
Diisopropyl methylphosphonate	1445-75-6								
Endothall 145-73	-3								
Nitrate 14797-55	-8								
Nitrite 14797-65	-0								
Sodium diethyldithiocarbamate	148-18-5								
Merphos 150-50	-5								
Potassium cyanide	151-50-8								
Ethyleneimine	151-56-4								
Napropamide 15299-99	-7								
Carbofuran 1563-66	-2								

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Trifluralin 1582-09	-8								
Alar 1596-84	-5								
Alachlor 15972-60	-8								
Prometon 1610-18	-0								
Aldicarb sulfone	1646-88-4								
Ethephon 16672-87	-0								
Methomyl 16752-77	-5								
Bromoxynil 1689-84	-5								
Bromoxynil octanoate	1689-99-2								
Benomyl 17804-35	-2								
Isopropyl methyl phosphonic acid	1832-54-8								
Benefin 1861-40	-1								
Chlorothalonil 1897-45	-6								
Oryzalin 19044-88	-3								
Paraquat 1910-42	-5								
Propachlor 1918-16	-7								
Vernam 1929-77	-7								
Nitrapyrin 1929-82	-4								
Oxadiazon 19666-30	-9								
Butylate 2008-41	-5								
p,p'-Dibromodiphenyl ether	2050-47-7								
Aluminum phosphide	20859-73-8								
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5								
Metribuzin 21087-64	-9								
Fluometuron 2164-17	-2								
Cyanazine 21725-46	-2								
Molinate 2212-67	-1								
Fenamiphos	22224-92-6								
Triallate 2303-17	-5								
Phosolone 2310-17	-0								
Propargite 2312-35	-8								
Oxamyl 23135-22	-0								

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Thiophanate-methyl 23564-05	-8								
Pronamide 23950-58	-5								
Mepiquat chloride	24307-26-4								
Pentachlorocyclopentadiene 25329-35	-5								
Sodium azide	26628-22-8								
Norflurazon 27314-13	-2								
Thiobencarb 28249-77	-6								
Chlorpyrifos 2921-88	-2								
Pirimiphos-methyl 29232-93	-7								
Methyl parathion	298-00-0								
Disulfoton 298-04	-4								
Naled 300-76	-5								
Acephate 30560-19	-1								
Pentabromodiphenyl ether	32534-81-9								
Octabromodiphenyl ether	32536-52-0								
Diuron 330-54	-1								
Linuron 330-55	-2								
Amitraz 33089-61	-1								
Asulam 3337-71	-1								
Diazomethane 334-88	-3								
Isopropalin 33820-53	-0								
Tebuthiuron 34014-18	-1								
Acetochlor 34256-82	-1								
Diflubenzuron 35367-38	-5								
Pentafluoroethane 354-33	-6								
Imazalil 35554-44	-0								
Hexabromodiphenyl ether	36483-60-0								
Iprodione 36734-19	-7								
Tetraethyldithiopyrophosphate 3689-24	-5								
Fosetyl-al 39148-24	-8								
Danitol 39515-41	-8								
Tetrabromodiphenyl ether	40088-47-9								

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Pendimethalin 40487-42	-1								
Oxyfluorfen 42874-03	-3								
Bayleton 43121-43	-3								
Difenzoquat 43222-48	-6								
Cyanogen 460-19	-5								
Carbonyl sulfide	463-58-1								
Tribromodiphenyl ether	49690-94-0								
4-Aminopyridine 504-24	-5								
Vinclozolin 50471-44	-8								
Potassium silver cyanide	506-61-6								
Silver cyanide	506-64-9								
Chlorine cyanide	506-77-4								
t-Butyl chloride	507-20-0								
Metolachlor 51218-45	-2								
Hexazinone 51235-04	-2								
Pydrin 51630-58	-1								
Ethyl carbamate	51-79-6								
Propylene glycol monoethyl ether	52125-53-8								
Cypermethrin 52315-07	-8								
Carboxin 5234-68	-4								
Permethrin 52645-53	-1								
2-Chloroacetophenone 532-27	-4								
Barium cyanide	542-62-1								
Bis(chloromethyl) ether	542-88-1								
Copper cyanide	544-92-3								
Carbosulfan 55285-14	-8								
Dimethipin 55290-64	-7								
Nitroguanidine 556-88	-7								
Zinc cyanide	557-21-1								
Ethion 563-12	-2								
Tributyltin oxide	56-35-9								
Thallium acetate	563-68-8								

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Parathion 56-38-	2								
Strychnine 57-24-	9								
beta-Propiolactone 57-57-	8								
2,6-Dimethylphenol 576-26	-1								
Metalaxyl 57837-19	-1								
Tridiphane 58138-08	-2								
Terbacil 5902-51	-2								
Calcium cyanide	592-01-8								
Vinyl bromide	593-60-2								
Fluridone 59756-60	-4								
1,1,2-Trichloropropane 598-77	-6								
d-Limonene 5989-27	-5								
Propiconazole 60207-90	-1								
Dimethoate 60-51-	5								
Furmecyclox 60568-05	-0								
technical Hexachlorocyclohexane (t-HCH)	608-73-1								
1,2,4-Tribromobenzene 615-54	-3								
Phenylmercuric acetate	62-38-4								
Acifluorfen, sodium	62476-59-9								
Methyl isocyanate	624-83-9								
Dichlorvos 62-73-	7								
Sodium fluoroacetate	62-74-8								
Selenourea 630-10	-4								
Ammonium acetate	631-61-8								
Carbaryl 63-25-	2								
Nonabromodiphenyl ether	63936-56-1								
Diethyl sulfate	64-67-5								
Chlorsulfuron 64902-72	-3								
Avermectin B1	65195-55-3								
Thallium carbonate	6533-73-9								
Cyromazine 66215-27	-8								
Flutolanil 66332-96	-5								

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Tralomethrin 66841-25	-6								
Amdro 67485-29	-4								
Prochloraz 67747-09	-5								
Cyhalothrin/karate 68085-85	-8								
N,N-Dimethylformamide 68-12-	2								
Baythroid 68359-37	-5								
Fluvalinate 69409-94	-5								
Haloxypop-methyl 69806-40	-2								
Hexachlorophene 70-30-	4								
Propanil 709-98	-8								
n-Butanol 71-36-	3								
Fomasafen 72178-02	-0								
Prometryn 7287-19	-6								
Phosmet	732-11-6								
Sethoxydim 74051-80	-2								
Apollo 74115-24	-5								
Ally 74223-64	-6								
Radium 226,228	7440-14-4								
Thallium (I) sulfate	7446-18-6								
Selenium sulfide	7446-34-6								
Mercuric chloride	7487-94-7								
Hydrogen cyanide	74-90-8								
Propyleneimine 75-55-	8								
Propylene oxide	75-56-9								
Cacodylic acid	75-60-5								
Bromotrichloromethane 75-62-	7								
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4								
Trichloroacetic acid	76-03-9								
Hydrogen chloride	7647-01-0								
Glycidaldehyde 765-34	-4								
Assure 76578-14	-8								
Phosphoric acid	7664-38-2								

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Ammonia 7664-41	-7								
Paclobutrazol 76738-62	-0								
Glufosinate-ammonium 77182-82	-2								
White phosphorus	7723-14-0								
Trichlorocyclopentadiene	77323-84-3								
Lactofen 77501-63	-4								
Aluminum sulfamate	7773-06-0								
Dimethyl sulfate	77-78-1								
Fluorine, soluble fluoride	7782-41-4								
Selenious acid	7783-00-8								
Arsine 7784-42	-1								
Thallium chloride	7791-12-0								
Tetraethyl lead	78-00-2								
Phosphine 7803-51	-2								
Merphos oxide	78-48-8								
Savey 78587-05	-0								
Acrylamide 79-06-	1								
Acrylic acid	79-10-7								
Methyl chlorocarbonate	79-22-1								
Harmony 79277-27	-3								
2-Nitropropane 79-46-	9								
Creosote 8001-58	-9								
Bisphenol A	80-05-7								
Coke oven emissions	8007-45-2								
Demeton 8065-48	-3								
1,1,1,2-Tetrafluoroethane 811-97	-2								
Imazaquin 81335-37	-7								
Pursuit 81335-77	-5								
Warfarin 81-81-	2								
Triasulfuron 82097-50	-5								
1,6-Hexamethylene diisocyanate	822-06-0								
Isoxaben 82558-50	-7								

TABLE A-4a. Air Force Installations: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force Installations at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Biphenthrin 82657-04	-3								
Londax 83055-99	-6								
Ametryn 834-12	-8								
Rotenone 83-79-	4								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0								
Diquat 85-00-	7								
Phthalic anhydride	85-44-9								
Nustar 85509-19	-9								
Hexabromobenzene 87-82-	1								
Terbutryn 886-50	-0								
Systhane 88671-89	-0								
ortho-Anisidine 90-04-	0								
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9								
Chlorimuron-ethyl 90982-32	-4								
p-Chlorophenyl methyl sulfoxide	934-73-6								
Fonofos 944-22	-9								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5								
Methidathion 950-37	-8								
3,4-Dimethylphenol 95-65-	8								
Diphenamid 957-51	-7								
2,4-Diaminotoluene 95-80-	7								
1,2,4,5-Tetrachlorobenzene 95-94-	3								
Tetrachlorovinphos 961-11	-5								
Methyl acrylate	96-33-3								
Ethylene thiourea	96-45-7								
Furfural 98-01-	1								
Benzotrichloride 98-07-	7								
p-Chlorophenyl methyl sulfone	98-57-7								

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TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Arsenic, inorganic	7440-38-2	97	1448	66457	35929	24614	0	2179	3735
Manganese 7439-96	-5	91	1292	79631	24671	45710	0	5511	3739
Nickel 7440-02	-0	86	1210	57039	26844	25259	0	1505	3431
Copper 7440-50	-8	88	1208	50289	29511	15254	0	1880	3644
Dichloromethane 75-09-	2	102	1196	38619	11818	24092	1315	597	797
Cadmium 7440-43	-9	89	1191	33531	21455	8527	0	878	2671
Trichloroethylene 79-01-	6	99	1141	126567	5624	115683	3219	1809	232
Selenium and compounds	7782-49-2	91	1097	29852	12918	14537	0	989	1408
Naphthalene 91-20-	3	98	1064	36497	10334	24821	107	551	684
Ethylbenzene 100-41	-4	99	1059	37092	7192	27159	2368	259	114
Mercury, elemental	7439-97-6	85	981	25238	15513	6924	0	687	2114
Beryllium and compounds	7440-41-7	82	948	32338	22936	6267	0	571	2564
cis-1,2-Dichloroethylene 156-59	-2	86	933	91436	3462	84061	1896	1741	276
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	82	851	14775	6056	7233	0	418	1068
Tetrachloroethylene 127-18	-4	85	846	49859	3733	43377	2081	576	92
Antimony 7440-36	-0	79	816	17502	10026	5518	0	969	989
Silver 7440-22	-4	84	816	14338	7198	5106	0	715	1319
Fluoranthene 206-44	-0	82	804	19046	13969	2891	1	315	1870
Phenanthrene 85-01-	8	88	799	16919	11441	3617	1	287	1573
Pyrene 129-00	-0	80	788	17995	13293	2584	1	271	1846
Chrysene 218-01	-9	79	733	16550	12649	1867	0	235	1799
Benzo [a] pyrene	50-32-8	79	703	16200	12519	1789	0	206	1686
Benzo(b)fluoranthene 205-99	-2	77	698	16074	12327	1719	0	254	1774
Benzo(a)anthracene 56-55-	3	79	693	15271	11639	1795	0	214	1623
Benzo[g,h,i]perylene 191-24	-2	77	610	12001	8937	1537	0	206	1321
trans-1,2-Dichloroethylene 156-60	-5	74	606	34809	945	32883	579	351	51
Indeno[1,2,3-cd]pyrene 193-39	-5	78	604	12794	9663	1560	0	226	1345
Cumene 98-82-	8	85	599	20364	3059	16945	104	194	62
Benzo(k)fluoranthene 207-08	-9	70	583	12391	9258	1505	0	215	1413

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Fluorene 86-73-	7	80	558	8658	4481	3372	0	195	610
Chlorobenzene 108-90	-7	75	551	31976	6130	24315	689	512	330
Anthracene 120-12	-7	73	548	9520	6505	1980	1	174	860
1,2-Dichloroethane 107-06	-2	76	546	17299	564	15973	579	147	36
Carbon disulfide	75-15-0	64	539	9796	1179	7482	726	146	263
1,1-Dichloroethane 75-34-	3	77	528	26976	735	25174	793	248	26
1,4-Dichlorobenzene 106-46	-7	81	516	17803	1362	15454	566	244	177
Acenaphthene 83-32-	9	75	513	7992	4457	2777	1	175	582
1,2-Dichlorobenzene 95-50-	1	74	473	16996	1071	14952	592	238	143
Dibenzo(a,h)anthracene 53-70-	3	65	470	7527	5346	1314	0	159	708
Molybdenum 7439-98	-7	48	465	14189	6094	6594	0	756	745
Methyl tert-butyl ether	1634-04-4	63	436	13791	684	12361	374	347	25
Dibutyl phthalate	84-74-2	66	420	4297	1533	2313	0	193	258
1,3-Dichlorobenzene 541-73	-1	70	388	10787	596	9324	565	221	81
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	58	372	7051	5239	464	0	196	1152
Bromomethane 74-83-	9	59	370	6840	658	5606	410	143	23
Bromodichloromethane 75-27-	4	65	369	7027	288	6216	322	178	23
1,1,1-Trichloroethane 71-55-	6	69	355	9644	521	8637	397	83	6
Trichlorofluoromethane 75-69-	4	63	353	9856	1221	7542	944	114	35
1,2,4-Trichlorobenzene 120-82	-1	68	353	7296	772	5828	383	209	104
Acenaphthylene 208-96	-8	62	330	4508	2363	1713	0	120	312
Carbon tetrachloride	56-23-5	66	329	14195	540	12889	619	125	22
Ethyl chloride	75-00-3	67	327	9386	363	8422	435	142	24
Diethyl phthalate	84-66-2	63	316	2611	416	1998	0	115	82
Styrene 100-42	-5	67	308	6067	558	4652	679	132	46
1,1,2-Trichloroethane 79-00-	5	62	305	9703	460	8694	401	121	27
Dichlorodifluoromethane 75-71-	8	65	293	7534	338	5998	1045	125	28
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	56	288	4296	2698	452	0	49	1097
Dibromochloromethane 124-48	-1	59	283	6241	343	5403	308	164	23
Dibenzofuran 132-64	-9	54	267	3710	1681	1558	0	123	348
Dieldrin 60-57-	1	49	259	4043	2426	949	0	209	459
1,2-Dichloropropane 78-87-	5	57	255	8358	319	7584	326	107	22

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Butyl benzyl phthalate	85-68-7	54	249	2002	479	1289	0	112	122
Bromoform 75-25-	2	52	248	6258	549	5158	308	186	57
Cyanide, free	57-12-5	33	215	2765	1109	1222	0	180	254
Heptachlor epoxide	1024-57-3	44	209	1624	794	447	0	135	248
Hexachlorobutadiene 87-68-	3	46	202	6258	377	5277	334	204	66
1,1,2,2-Tetrachloroethane 79-34-	5	52	196	6782	380	5766	457	143	36
4-Methylphenol 106-44	-5	45	189	2024	195	1557	0	114	158
Heptachlor	76-44-8	44	184	1219	509	372	0	141	97
Aldrin 309-00	-2	47	181	1294	598	355	0	127	214
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	39	177	1296	488	490	0	140	178
gamma-Hexachlorocyclohexane 58-89-	9	42	166	1163	330	495	0	187	151
Methoxychlor 72-43-	5	39	165	1134	563	209	0	116	246
Arochlor 1254	11097-69-1	41	162	2348	1883	47	0	37	381
beta-Hexachlorocyclohexane 319-85	-7	43	162	1226	385	499	0	160	182
2,4-Dimethylphenol 105-67	-9	46	161	1890	128	1615	0	106	41
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	44	155	1200	417	422	0	161	200
Endrin 72-20-	8	37	152	1163	538	273	0	122	230
2-Methylphenol 95-48-	7	40	138	1669	142	1380	0	106	41
o-Chlorotoluene 95-49-	8	33	121	4697	281	4287	0	105	24
Pentachlorophenol 87-86-	5	36	116	1739	123	1480	0	95	41
Chromium (VI)	18540-29-9	16	103	1783	676	1051	0	22	34
1,2-Dibromo-3-chloropropane 96-12-	8	31	102	4477	264	4076	0	105	32
N-Nitrosodiphenylamine 86-30-	6	37	99	1461	224	1086	0	94	57
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	23	98	2224	55	930	1238	1	0
2,4-Dinitrotoluene 121-14	-2	30	97	1397	262	988	0	96	51
1,2,3-Trichloropropane 96-18-	4	34	96	4453	255	4072	0	104	22
1,1,1,2-Tetrachloroethane 630-20	-6	20	83	21450	259	16661	0	4444	86
Bromochloromethane 74-97-	5	24	78	4762	370	4190	70	109	23
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	23	73	1822	1651	62	0	2	107
2,4-Dichlorophenol 120-83	-2	26	73	1197	36	1033	0	92	36
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	22	72	1763	1594	63	0	4	102
2,6-Dinitrotoluene 606-20	-2	24	70	1204	72	1002	0	92	38

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
N-Nitroso-di-N-propylamine 621-64	-7	29	70	1157 51		976	0	93	37
2-Chlorophenol 95-57-	8	23	66	1356 30		1195	0	94	37
Isophorone 78-59-	1	26	63	1155 59		964	0	96	36
p-Chloroaniline 106-47	-8	21	62	1177 70		979	0	93	35
p-Nitrophenol 100-02	-7	23	61	1538 52		1160	0	202	124
Nitrobenzene 98-95-	3	26	56	1159 40		990	0	94	35
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	27	54	540	423 59		0	5 53	
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	18	52	185	110 39		0	11 25	
1,4-Dioxane 123-91	-1	13	51	1837	58 1376	393		2	8
Hexachlorobenzene 118-74	-1	18	51	1150 80		934	0	94	42
Bis(chloroethyl)ether 111-44	-4	20	50	1155 36		986	0	92	41
2,4,6-Trichlorophenol 88-06-	2	21	49	1115 34		951	0	92	38
o-Dinitrobenzene 528-29	-0	5	46	4493 1908		2404	0	125	56
beta-Chloronaphthalene 91-58-	7	19	46	1200 77		948	0	92	83
2,4-Dinitrophenol 51-28-	5	16	46	1118 25		966	0	92	35
Hexachloroethane 67-72-	1	17	44	1132 62		941	0	92	37
2,4,5-Trichlorophenol 95-95-	4	19	43	1111 31		951	0	92	37
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	8	43	786 258		500	0	10	18
2,4,5-Trichlorophenoxyacetic acid	93-76-5	13	41	127	31 70		0	1 25	
Bis(2-chloroethoxy)methane 111-91	-1	15	40	1096 29		940	0	92	35
Arochlor 1016	12674-11-2	18	39	373 156		41	0	27	149
Bis(2-chloroisopropyl) ether	108-60-1	12	37	1104 26		948	0	92	38
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	10	37	187 150		4	0	6	27
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	34	121	66 31		0	5 19	
Acetophenone 98-86-	2	12	34	101 25		67	6	0	3
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	32	117 39		63	0	7	8
Vinyl acetate	108-05-4	15	31	390 15		65	308	2	0
N-Nitrosodimethylamine 62-75-	9	6	28	397 3		388	0	5	1
2,4,6-Trinitrotoluene 118-96	-7	6	28	270 225		35	0	2	8
Dicamba 1918-00	-9	13	25	57 31		22	0	2	2
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	14	24	132	50 17		0	23 42	
Caprolactam 105-60	-2	8	23	172 28		138	0	6	0

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	6	22	330	125	205	0	0	0
Dalapon (sodium salt)	75-99-0	13	20	89	33	37	0	8	11
n-Heptane 142-82	-5	5	19	638	0	5	633	0	0
Toxaphene 8001-35	-2	9	17	276	38	38	0	101	99
3-Methylphenol 108-39	-4	5	16	52	8	44	0	0	0
1,1-Biphenyl 92-52-	4	8	14	75	43	32	0	0	0
Dinoseb 88-85-	7	10	13	48	36	12	0	0	0
Chloramben 133-90	-4	1	13	43	13	30	0	0	0
Polychlorinated biphenyls	1336-36-3	7	10	1210	1197	8	0	0	5
Acrylonitrile 107-13	-1	4	10	19	3	15	0	0	1
Benzaldehyde 100-52	-7	6	9	44	39	2	0	0	3
Ethylene glycol	107-21-1	2	9	34	25	8	0	1	0
Picloram 1918-02	-1	1	9	10	3	6	0	0	1
Vanadium pentoxide	1314-62-1	2	8	169	15	154	0	0	0
Uranium, natural	7440-61-1	2	8	169	15	154	0	0	0
Ethyl acetate	141-78-6	2	8	43	26	17	0	0	0
Pyridine 110-86	-1	6	7	27	23	3	0	0	1
2,3,4,6-Tetrachlorophenol 58-90-	2	5	7	13	1	12	0	0	0
Aniline 62-	53-3	6	6	12	4	6	0	0	2
1,3,5-Trinitrobenzene 99-35-	4	4	5	23	11	10	0	0	2
Benzyl chloride	100-44-7	3	4	338	0	0	338	0	0
Chlorobenzilate 510-15	-6	2	4	14	6	8	0	0	0
Benzidine 92-87-	5	4	4	9	4	2	0	0	3
Dacthal 1861-32	-1	1	4	5	1	4	0	0	0
Acetaldehyde 75-07-	0	2	3	56	0	51	5	0	0
Hydrazine/hydrazine sulfate	302-01-2	1	3	17	7	8	0	0	2
Diphenylamine 122-39	-4	2	3	10	0	10	0	0	0
Azobenzene 103-33	-3	3	3	4	1	2	0	0	1
N-Nitrosodiethylamine 55-18-	5	2	3	4	0	4	0	0	0
Chromium III, insoluble salts	16065-83-1	1	2	7	0	7	0	0	0
Dibromodichloromethane 594-18	-3	2	2	5	0	5	0	0	0
Formic acid	64-18-6	2	2	5	0	5	0	0	0

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Methacrylonitrile 126-98	-7	1	2	3	0	3	0	0	0
N-Nitroso-di-n-butylamine 924-16	-3	1	2	2	0	2	0	0	0
Pentachloronitrobenzene 82-68-	8	1	1	138	58	3	0	10	67
Formaldehyde 50-00-	0	1	1	47	0	47	0	0	0
Methanol 67-56-	1	1	1	14	0	13	1	0	0
Chlorine 7782-50	-5	1	1	9	0	0	0	9	0
Atrazine 1912-24	-9	1	1	6	1	3	0	2	0
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1	0	1	0	0	0
Mirex 2385-85	-5	1	1	1	1	0	0	0	0
Pentachlorobenzene 608-93	-5	1	1	1	1	0	0	0	0
Chlorodifluoromethane 75-45-	6	1	1	1	0	1	0	0	0
N-Nitrosopyrrolidine 930-55	-2	1	1	1	1	0	0	0	0
Simazine 122-34	-9			4	4	0	0	0	0
Propylene glycol	57-55-6			2	2	0	0	0	0
Isobutyl alcohol	78-83-1			2	0	1	0	1	0
Allyl chloride	107-05-1			1	0	0	1	0	0
Cyclohexanone	108-94-1			1	0	1	0	0	0
Asbestos 1332-21	-4			1	1	0	0	0	0
Captafol 2425-06	-1								
Dodine 2439-10	-3								
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7								
Nitric Oxide	10102-43-9								
Thallium nitrate	10102-45-1								
Express 101200-4	8-0								
Chlorpropham 101-21	-3								
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1								
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8								
Methamidophos 10265-92	-6								
di(2-ethylhexyl)Adipate 103-23	-1								
Resmethrin 10453-86	-8								
Monchloramine 10599-90	-3								
1,4-Dibromobenzene 106-37	-6								
Quinone 106-51	-4								

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
1,2-Epoxybutane 106-88	-7								
Epichlorohydrin 106-89	-8								
Ethylene diamine	107-15-3								
Glyphosate 1071-83	-6								
Allyl alcohol	107-18-6								
Propargyl alcohol	107-19-7								
Chloromethyl methyl ether	107-30-2								
Propylene glycol monomethyl ether	107-98-2								
Maleic anhydride	108-31-6								
m-Phenylenediamine 108-45	-2								
Cyclohexylamine 108-91	-8								
1-Chlorobutane 109-69	-3								
2-Methoxyethanol 109-86	-4								
Furan 110-00	-9								
2-Ethoxyethanol 110-80	-5								
N-Nitrosodiethanolamine 1116-54	-7								
Adiponitrile 111-69	-3								
Baygon 114-26	-1								
Endosulfan 115-29	-7								
Aldicarb 116-06	-3								
Decabromodiphenyl ether (DBDPE)	1163-19-5								
3,3-Dimethylbenzidine 119-93	-7								
Nickel subsulfide	12035-72-2								
Thallium selenite	12039-52-0								
Dimethyl terephthalate (DMT)	120-61-6								
Zineb 12122-67	-7								
Triethylamine 121-44	-8								
N,N-Dimethylaniline 121-69	-7								
Malathion 121-75	-5								
Propham 122-42	-9								
1,2-Diphenylhydrazine 122-66	-7								
p-Chlorophenyl methyl sulfide	123-09-1								

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Hydroquinone 123-31	-9								
Maleic hydrazide	123-33-1								
Maneb 12427-38	-2								
Dimethylamine 124-40	-3								
Chlordane (technical)	12789-03-6								
Antimony trioxide	1309-64-4								
Thallic oxide	1314-32-5								
Zinc phosphide	1314-84-7								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5								
Tricresol 1319-77	-3								
Captan 133-06	-2								
Folpet 133-07	-3								
Nickel carbonyl	13463-39-3								
Quinalphos 13593-03	-8								
Phenmedipham 13684-63	-4								
Thiram 137-26	-8								
Propazine 139-40	-2								
Aramite 140-57	-8								
Bidrin 141-66	-2								
Triethylene glycol monobutyl ether	143-22-6								
Sodium cyanide	143-33-9								
Diisopropyl methylphosphonate	1445-75-6								
Endothall 145-73	-3								
Nitrate 14797-55	-8								
Nitrite 14797-65	-0								
Sodium diethyldithiocarbamate	148-18-5								
Merphos 150-50	-5								
Potassium cyanide	151-50-8								
Ethyleneimine	151-56-4								
Napropamide 15299-99	-7								
Carbofuran 1563-66	-2								
Trifluralin 1582-09	-8								

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Alar 1596-84	-5								
Alachlor 15972-60	-8								
Prometon 1610-18	-0								
Aldicarb sulfone	1646-88-4								
Ethephon 16672-87	-0								
Methomyl 16752-77	-5								
Bromoxynil 1689-84	-5								
Bromoxynil octanoate	1689-99-2								
Benomyl 17804-35	-2								
Isopropyl methyl phosphonic acid	1832-54-8								
Benefin 1861-40	-1								
Chlorothalonil 1897-45	-6								
Oryzalin 19044-88	-3								
Paraquat 1910-42	-5								
Propachlor 1918-16	-7								
Vernam 1929-77	-7								
Nitrapyrin 1929-82	-4								
Oxadiazon 19666-30	-9								
Butylate 2008-41	-5								
p,p'-Dibromodiphenyl ether	2050-47-7								
Aluminum phosphide	20859-73-8								
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5								
Metribuzin 21087-64	-9								
Fluometuron 2164-17	-2								
Cyanazine 21725-46	-2								
Molinate 2212-67	-1								
Fenamiphos	22224-92-6								
Triallate 2303-17	-5								
Phosolone 2310-17	-0								
Propargite 2312-35	-8								
Oxamyl 23135-22	-0								
Thiophanate-methyl 23564-05	-8								

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Pronamide 23950-58	-5								
Mepiquat chloride	24307-26-4								
Pentachlorocyclopentadiene 25329-35	-5								
Sodium azide	26628-22-8								
Norflurazon 27314-13	-2								
Thiobencarb 28249-77	-6								
Chlorpyrifos 2921-88	-2								
Pirimiphos-methyl 29232-93	-7								
Methyl parathion	298-00-0								
Disulfoton 298-04	-4								
Naled 300-76	-5								
Acephate 30560-19	-1								
Pentabromodiphenyl ether	32534-81-9								
Octabromodiphenyl ether	32536-52-0								
Diuron 330-54	-1								
Linuron 330-55	-2								
Amitraz 33089-61	-1								
Asulam 3337-71	-1								
Diazomethane 334-88	-3								
Isopropalin 33820-53	-0								
Tebuthiuron 34014-18	-1								
Acetochlor 34256-82	-1								
Diflubenzuron 35367-38	-5								
Pentafluoroethane 354-33	-6								
Imazalil 35554-44	-0								
Hexabromodiphenyl ether	36483-60-0								
Iprodione 36734-19	-7								
Tetraethyldithiopyrophosphate 3689-24	-5								
Fosetyl-al 39148-24	-8								
Danitol 39515-41	-8								
Tetrabromodiphenyl ether	40088-47-9								
Pendimethalin 40487-42	-1								

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Oxyfluorfen 42874-03	-3								
Bayleton 43121-43	-3								
Difenzoquat 43222-48	-6								
Cyanogen 460-19	-5								
Carbonyl sulfide	463-58-1								
Tribromodiphenyl ether	49690-94-0								
4-Aminopyridine 504-24	-5								
Vinclozolin 50471-44	-8								
Potassium silver cyanide	506-61-6								
Silver cyanide	506-64-9								
Chlorine cyanide	506-77-4								
t-Butyl chloride	507-20-0								
Metolachlor 51218-45	-2								
Hexazinone 51235-04	-2								
Pydrin 51630-58	-1								
Ethyl carbamate	51-79-6								
Propylene glycol monoethyl ether	52125-53-8								
Cypermethrin 52315-07	-8								
Carboxin 5234-68	-4								
Permethrin 52645-53	-1								
2-Chloroacetophenone 532-27	-4								
Barium cyanide	542-62-1								
Bis(chloromethyl) ether	542-88-1								
Copper cyanide	544-92-3								
Carbosulfan 55285-14	-8								
Dimethipin 55290-64	-7								
Nitroguanidine 556-88	-7								
Zinc cyanide	557-21-1								
Ethion 563-12	-2								
Tributyltin oxide	56-35-9								
Thallium acetate	563-68-8								
Parathion 56-38-	2								

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Strychnine 57-24-	9								
beta-Propiolactone 57-57-	8								
2,6-Dimethylphenol 576-26	-1								
Metalaxyl 57837-19	-1								
Tridiphan 58138-08	-2								
Terbacil 5902-51	-2								
Calcium cyanide	592-01-8								
Vinyl bromide	593-60-2								
Fluridone 59756-60	-4								
1,1,2-Trichloropropane 598-77	-6								
d-Limonene 5989-27	-5								
Propiconazole 60207-90	-1								
Dimethoate 60-51-	5								
Furmecyclo 60568-05	-0								
technical Hexachlorocyclohexane (t-HCH)	608-73-1								
1,2,4-Tribromobenzene 615-54	-3								
Phenylmercuric acetate	62-38-4								
Acifluorfen, sodium	62476-59-9								
Methyl isocyanate	624-83-9								
Dichlorvos 62-73-	7								
Sodium fluoroacetate	62-74-8								
Selenourea 630-10	-4								
Ammonium acetate	631-61-8								
Carbaryl 63-25-	2								
Nonabromodiphenyl ether	63936-56-1								
Diethyl sulfate	64-67-5								
Chlorsulfuron 64902-72	-3								
Avermectin B1	65195-55-3								
Thallium carbonate	6533-73-9								
Cyromazine 66215-27	-8								
Flutolanil 66332-96	-5								
Tralomethrin 66841-25	-6								

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Amdro 67485-29	-4								
Prochloraz 67747-09	-5								
Cyhalothrin/karate 68085-85	-8								
N,N-Dimethylformamide 68-12-	2								
Baythroid 68359-37	-5								
Fluvalinate 69409-94	-5								
Haloxypop-methyl 69806-40	-2								
Hexachlorophene 70-30-	4								
Propanil 709-98	-8								
n-Butanol 71-36-	3								
Fomasafen 72178-02	-0								
Prometryn 7287-19	-6								
Phosmet	732-11-6								
Sethoxydim 74051-80	-2								
Apollo 74115-24	-5								
Ally 74223-64	-6								
Radium 226,228	7440-14-4								
Thallium (I) sulfate	7446-18-6								
Selenium sulfide	7446-34-6								
Mercuric chloride	7487-94-7								
Hydrogen cyanide	74-90-8								
Propyleneimine 75-55-	8								
Propylene oxide	75-56-9								
Cacodylic acid	75-60-5								
Bromotrichloromethane 75-62-	7								
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4								
Trichloroacetic acid	76-03-9								
Hydrogen chloride	7647-01-0								
Glycidaldehyde 765-34	-4								
Assure 76578-14	-8								
Phosphoric acid	7664-38-2								
Ammonia 7664-41	-7								

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Paclobutrazol 76738-62	-0								
Glufosinate-ammonium 77182-82	-2								
White phosphorus	7723-14-0								
Trichlorocyclopentadiene	77323-84-3								
Lactofen 77501-63	-4								
Aluminum sulfamate	7773-06-0								
Dimethyl sulfate	77-78-1								
Fluorine, soluble fluoride	7782-41-4								
Selenious acid	7783-00-8								
Arsine 7784-42	-1								
Thallium chloride	7791-12-0								
Tetraethyl lead	78-00-2								
Phosphine 7803-51	-2								
Merphos oxide	78-48-8								
Savey 78587-05	-0								
Acrylamide 79-06-	1								
Acrylic acid	79-10-7								
Methyl chlorocarbonate	79-22-1								
Harmony 79277-27	-3								
2-Nitropropane 79-46-	9								
Creosote 8001-58	-9								
Bisphenol A	80-05-7								
Coke oven emissions	8007-45-2								
Demeton 8065-48	-3								
1,1,1,2-Tetrafluoroethane 811-97	-2								
Imazaquin 81335-37	-7								
Pursuit 81335-77	-5								
Warfarin 81-81-	2								
Triasulfuron 82097-50	-5								
1,6-Hexamethylene diisocyanate	822-06-0								
Isoxaben 82558-50	-7								
Biphenthrin 82657-04	-3								

TABLE A-4b. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Sites at Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Londax 83055-99	-6								
Ametryn 834-12	-8								
Rotenone 83-79-	4								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0								
Diquat 85-00-	7								
Phthalic anhydride	85-44-9								
Nustar 85509-19	-9								
Hexabromobenzene 87-82-	1								
Terbutryn 886-50	-0								
Systhane 88671-89	-0								
ortho-Anisidine 90-04-	0								
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9								
Chlorimuron-ethyl 90982-32	-4								
p-Chlorophenyl methyl sulfoxide	934-73-6								
Fonofos 944-22	-9								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5								
Methidathion 950-37	-8								
3,4-Dimethylphenol 95-65-	8								
Diphenamid 957-51	-7								
2,4-Diaminotoluene 95-80-	7								
1,2,4,5-Tetrachlorobenzene 95-94-	3								
Tetrachlorovinphos 961-11	-5								
Methyl acrylate	96-33-3								
Ethylene thiourea	96-45-7								
Furfural 98-01-	1								
Benzotrithloride 98-07-	7								
p-Chlorophenyl methyl sulfone	98-57-7								

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TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Trichloroethylene 79-01-	6	99	1141	126567	5624	115683	3219	1809	232
cis-1,2-Dichloroethylene 156-59	-2	86	933	91436	3462	84061	1896	1741	276
Manganese 7439-96	-5	91	1292	79631	24671	45710	0	5511	3739
Arsenic, inorganic	7440-38-2	97	1448	66457	35929	24614	0	2179	3735
Nickel 7440-02	-0	86	1210	57039	26844	25259	0	1505	3431
Copper 7440-50	-8	88	1208	50289	29511	15254	0	1880	3644
Tetrachloroethylene 127-18	-4	85	846	49859	3733	43377	2081	576	92
Dichloromethane 75-09-	2	102	1196	38619	11818	24092	1315	597	797
Ethylbenzene 100-41	-4	99	1059	37092	7192	27159	2368	259	114
Naphthalene 91-20-	3	98	1064	36497	10334	24821	107	551	684
trans-1,2-Dichloroethylene 156-60	-5	74	606	34809	945	32883	579	351	51
Cadmium 7440-43	-9	89	1191	33531	21455	8527	0	878	2671
Beryllium and compounds	7440-41-7	82	948	32338	22936	6267	0	571	2564
Chlorobenzene 108-90	-7	75	551	31976	6130	24315	689	512	330
Selenium and compounds	7782-49-2	91	1097	29852	12918	14537	0	989	1408
1,1-Dichloroethane 75-34-	3	77	528	26976	735	25174	793	248	26
Mercury, elemental	7439-97-6	85	981	25238	15513	6924	0	687	2114
1,1,1,2-Tetrachloroethane 630-20	-6	20	83	21450	259	16661	0	4444	86
Cumene 98-82-	8	85	599	20364	3059	16945	104	194	62
Fluoranthene 206-44	-0	82	804	19046	13969	2891	1	315	1870
Pyrene 129-00	-0	80	788	17995	13293	2584	1	271	1846
1,4-Dichlorobenzene 106-46	-7	81	516	17803	1362	15454	566	244	177
Antimony 7440-36	-0	79	816	17502	10026	5518	0	969	989
1,2-Dichloroethane 107-06	-2	76	546	17299	564	15973	579	147	36
1,2-Dichlorobenzene 95-50-	1	74	473	16996	1071	14952	592	238	143
Phenanthrene 85-01-	8	88	799	16919	11441	3617	1	287	573
Chrysene 218-01	-9	79	733	16550	12649	1867	0	235	1799
Benzo [a] pyrene	50-32-8	79	703	16200	12519	1789	0	206	1686
Benzo(b)fluoranthene 205-99	-2	77	698	16074	12327	1719	0	254	1774

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Benzo(a)anthracene 56-55-	3	79	693	15271	11639	1795	0	214	623
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	82	851	14775	6056	7233	0	418	1068
Silver 7440-22	-4	84	816	14338	7198	5106	0	715	1319
Carbon tetrachloride	56-23-5	66	329	14195	540	12889	619	125	22
Molybdenum 7439-98	-7	48	465	14189	6094	6594	0	756	745
Methyl tert-butyl ether	1634-04-4	63	436	13791	684	12361	374	347	25
Indeno[1,2,3-cd]pyrene 193-39	-5	78	604	12794	9663	1560	0	226	1345
Benzo(k)fluoranthene 207-08	-9	70	583	12391	9258	1505	0	215	1413
Benzo[g,h,i]perylene 191-24	-2	77	610	12001	8937	1537	0	206	1321
1,3-Dichlorobenzene 541-73	-1	70	388	10787	596	9324	565	221	81
Trichlorofluoromethane 75-69-	4	63	353	9856	1221	7542	944	114	35
Carbon disulfide	75-15-0	64	539	9796	1179	7482	726	146	263
1,1,2-Trichloroethane 79-00-	5	62	305	9703	460	8694	401	121	27
1,1,1-Trichloroethane 71-55-	6	69	355	9644	521	8637	397	83	6
Anthracene 120-12	-7	73	548	9520	6505	1980	1	174	860
Ethyl chloride	75-00-3	67	327	9386	363	8422	435	142	24
Fluorene 86-73-	7	80	558	8658	4481	3372	0	195	610
1,2-Dichloropropane 78-87-	5	57	255	8358	319	7584	326	107	22
Acenaphthene 83-32-	9	75	513	7992	4457	2777	1	175	582
Dichlorodifluoromethane 75-71-	8	65	293	7534	338	5998	1045	125	28
Dibenzo(a,h)anthracene 53-70-	3	65	470	7527	5346	1314	0	159	708
1,2,4-Trichlorobenzene 120-82	-1	68	353	7296	772	5828	383	209	104
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	58	372	7051	5239	464	0	196	1152
Bromodichloromethane 75-27-	4	65	369	7027	288	6216	322	178	23
Bromomethane 74-83-	9	59	370	6840	658	5606	410	143	23
1,1,2,2-Tetrachloroethane 79-34-	5	52	196	6782	380	5766	457	143	36
Bromoform 75-25-	2	52	248	6258	549	5158	308	186	57
Hexachlorobutadiene 87-68-	3	46	202	6258	377	5277	334	204	66
Dibromochloromethane 124-48	-1	59	283	6241	343	5403	308	164	23
Styrene 100-42	-5	67	308	6067	558	4652	679	132	46
Bromochloromethane 74-97-	5	24	78	4762	370	4190	70	109	23
o-Chlorotoluene 95-49-	8	33	121	4697	281	4287	0	105	24

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Acenaphthylene 208-96	-8	62	330	4508	2363	1713	0	120	312
o-Dinitrobenzene 528-29	-0	5	46	4493	1908	2404	0	125	56
1,2-Dibromo-3-chloropropane 96-12-	8	31	102	4477	264	4076	0	105	32
1,2,3-Trichloropropane 96-18-	4	34	96	4453	255	4072	0	104	22
Dibutyl phthalate	84-74-2	66	420	4297	1533	2313	0	193	258
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	56	288	4296	2698	452	0	49	1097
Dieldrin 60-57-	1	49	259	4043	2426	949	0	209	459
Dibenzofuran 132-64	-9	54	267	3710	1681	1558	0	123	348
Cyanide, free	57-12-5	33	215	2765	1109	1222	0	180	254
Diethyl phthalate	84-66-2	63	316	2611	416	1998	0	115	82
Arochlor 1254	11097-69-1	41	162	2348	1883	47	0	37	381
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	23	98	2224	55	930	1238	1	0
4-Methylphenol 106-44	-5	45	189	2024	195	1557	0	114	158
Butyl benzyl phthalate	85-68-7	54	249	2002	479	1289	0	112	122
2,4-Dimethylphenol 105-67	-9	46	161	1890	128	1615	0	106	41
1,4-Dioxane 123-91	-1	13	51	1837	58	1376	393	2	8
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	23	73	1822	1651	62	0	2	107
Chromium (VI)	18540-29-9	16	103	1783	676	1051	0	22	34
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	22	72	1763	1594	63	0	4	102
Pentachlorophenol 87-86-	5	36	116	1739	123	1480	0	95	41
2-Methylphenol 95-48-	7	40	138	1669	142	1380	0	106	41
Heptachlor epoxide	1024-57-3	44	209	1624	794	447	0	135	248
p-Nitrophenol 100-02	-7	23	61	1538	52	1160	0	202	124
N-Nitrosodiphenylamine 86-30-	6	37	99	1461	224	1086	0	94	57
2,4-Dinitrotoluene 121-14	-2	30	97	1397	262	988	0	96	51
2-Chlorophenol 95-57-	8	23	66	1356	30	1195	0	94	37
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	39	177	1296	488	490	0	140	178
Aldrin 309-00	-2	47	181	1294	598	355	0	127	214
beta-Hexachlorocyclohexane 319-85	-7	43	162	1226	385	499	0	160	182
Heptachlor	76-44-8	44	184	1219	509	372	0	141	197
Polychlorinated biphenyls	1336-36-3	7	10	1210	1197	8	0	0	5
2,6-Dinitrotoluene 606-20	-2	24	70	1204	72	1002	0	92	38

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	44	155	1200	417	422	0	161	200
beta-Chloronaphthalene 91-58-	7	19	46	1200	77	948	0	92	83
2,4-Dichlorophenol 120-83	-2	26	73	1197	36	1033	0	92	36
p-Chloroaniline 106-47	-8	21	62	1177	70	979	0	93	35
Endrin 72-20-	8	37	152	1163	538	273	0	122	230
gamma-Hexachlorocyclohexane 58-89-	9	42	166	1163	330	495	0	187	151
Nitrobenzene 98-95-	3	26	56	1159	40	990	0	94	35
N-Nitroso-di-N-propylamine 621-64	-7	29	70	1157	51	976	0	93	37
Isophorone 78-59-	1	26	63	1155	59	964	0	96	36
Bis(chloroethyl)ether 111-44	-4	20	50	1155	36	986	0	92	41
Hexachlorobenzene 118-74	-1	18	51	1150	80	934	0	94	42
Methoxychlor 72-43-	5	39	165	1134	563	209	0	116	246
Hexachloroethane 67-72-	1	17	44	1132	62	941	0	92	37
2,4-Dinitrophenol 51-28-	5	16	46	1118	25	966	0	92	35
2,4,6-Trichlorophenol 88-06-	2	21	49	1115	34	951	0	92	38
2,4,5-Trichlorophenol 95-95-	4	19	43	1111	31	951	0	92	37
Bis(2-chloroisopropyl) ether	108-60-1	12	37	1104	26	948	0	92	38
Bis(2-chloroethoxy)methane 111-91	-1	15	40	1096	29	940	0	92	35
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	8	43	786	258	500	0	10	18
n-Heptane 142-82	-5	5	19	638	0	5	633	0	0
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	27	54	540	423	59	0	5	53
N-Nitrosodimethylamine 62-75-	9	6	28	397	3	388	0	5	1
Vinyl acetate	108-05-4	15	31	390	15	65	308	2	0
Arochlor 1016	12674-11-2	18	39	373	156	41	0	27	149
Benzyl chloride	100-44-7	3	4	338	0	0	338	0	0
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	6	22	330	125	205	0	0	0
Toxaphene 8001-35	-2	9	17	276	38	38	0	101	99
2,4,6-Trinitrotoluene 118-96	-7	6	28	270	225	35	0	2	8
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	10	37	187	150	4	0	6	27
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	18	52	185	110	39	0	11	25
Caprolactam 105-60	-2	8	23	172	28	138	0	6	0
Vanadium pentoxide	1314-62-1	2	8	169	15	154	0	0	0

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Uranium, natural	7440-61-1	2	8	169	15	154	0	0	0
Pentachloronitrobenzene 82-68-	8	1	1	138	58	3	0	10	67
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	14	24	132	50	17	0	23	42
2,4,5-Trichlorophenoxyacetic acid	93-76-5	13	41	127	31	70	0	1	25
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	34	121	66	31	0	5	19
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	32	117	39	63	0	7	8
Acetophenone 98-86-	2	12	34	101	25	67	6	0	3
Dalapon (sodium salt)	75-99-0	13	20	89	33	37	0	8	11
1,1-Biphenyl 92-52-	4	8	14	75	43	32	0	0	0
Dicamba 1918-00	-9	13	25	57	31	22	0	2	2
Acetaldehyde 75-07-	0	2	3	56	0	51	5	0	0
3-Methylphenol 108-39	-4	5	16	52	8	44	0	0	0
Dinoseb 88-85-	7	10	13	48	36	12	0	0	0
Formaldehyde 50-00-	0	1	1	47	0	47	0	0	0
Benzaldehyde 100-52	-7	6	9	44	39	2	0	0	3
Ethyl acetate	141-78-6	2	8	43	26	17	0	0	0
Chloramben 133-90	-4	1	13	43	13	30	0	0	0
Ethylene glycol	107-21-1	2	9	34	25	8	0	1	0
Pyridine 110-86	-1	6	7	27	23	3	0	0	1
1,3,5-Trinitrobenzene 99-35-	4	4	5	23	11	10	0	0	2
Acrylonitrile 107-13	-1	4	10	19	3	15	0	0	1
Hydrazine/hydrazine sulfate	302-01-2	1	3	17	7	8	0	0	2
Chlorobenzilate 510-15	-6	2	4	14	6	8	0	0	0
Methanol 67-56-	1	1	1	14	0	13	1	0	0
2,3,4,6-Tetrachlorophenol 58-90-	2	5	7	13	1	12	0	0	0
Aniline 62-	53-3	6	6	12	4	6	0	0	2
Picloram 1918-02	-1	1	9	10	3	6	0	0	1
Diphenylamine 122-39	-4	2	3	10	0	10	0	0	0
Benzidine 92-87-	5	4	4	9	4	2	0	0	3
Chlorine 7782-50	-5	1	1	9	0	0	0	9	0
Chromium III, insoluble salts	16065-83-1	1	2	7	0	7	0	0	0
Atrazine 1912-24	-9	1	1	6	1	3	0	2	0

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Dacthal 1861-32	-1	1	4	5	1		0	0	
Dibromodichloromethane 594-18	-3	2	2	5	0		0	0	
Formic acid	64-18-6	2	2	5	0		0	0	
Simazine	122-34-9			4	4		0	0	
Azobenzene 103-33	-3	3	3	4	1		0	0	1
N-Nitrosodiethylamine 55-18-	5	2	3	4	0		0	0	
Methacrylonitrile 126-98	-7	1	2	3	0		0	0	
Propylene glycol	57-55-6			2	2		0	0	
Isobutyl alcohol	78-83-1			2	0		0	1	
N-Nitroso-di-n-butylamine 924-16	-3	1	2	2	0		0	0	
Asbestos	1332-21-4			1	1		0	0	
Mirex 2385-85	-5	1	1	1	1		0	0	
Pentachlorobenzene 608-93	-5	1	1	1	1		0	0	
N-Nitrosopyrrolidine 930-55	-2	1	1	1	1		0	0	
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1	0		0	0	
Allyl chloride	107-05-1			1	0		1	0	
Cyclohexanone 108-94	-1			1	0		0	0	
Chlorodifluoromethane 75-45-	6	1	1	1	0		0	0	
Captafol 2425-06	-1								
Dodine	2439-10-3								
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7								
Nitric Oxide	10102-43-9								
Thallium nitrate	10102-45-1								
Express 101200-4	8-0								
Chlorpropham 101-21	-3								
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1								
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8								
Methamidophos	10265-92-6								
di(2-ethylhexyl)Adipate 103-23	-1								
Resmethrin 10453-86	-8								
Monchloramine	10599-90-3								
1,4-Dibromobenzene 106-37	-6								
Quinone 106-51	-4								

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
1,2-Epoxybutane	106-88-7								
Epichlorohydrin 106-89	-8								
Ethylene diamine	107-15-3								
Glyphosate	1071-83-6								
Allyl alcohol	107-18-6								
Propargyl alcohol	107-19-7								
Chloromethyl methyl ether	107-30-2								
Propylene glycol monomethyl ether	107-98-2								
Maleic anhydride	108-31-6								
m-Phenylenediamine	108-45-2								
Cyclohexylamine 108-91	-8								
1-Chlorobutane	109-69-3								
2-Methoxyethanol	109-86-4								
Furan 110-00	-9								
2-Ethoxyethanol 110-80	-5								
N-Nitrosodiethanolamine 1116-54	-7								
Adiponitrile 111-69	-3								
Baygon 114-26	-1								
Endosulfan 115-29	-7								
Aldicarb 116-06	-3								
Decabromodiphenyl ether (DBDPE)	1163-19-5								
3,3-Dimethylbenzidine 119-93	-7								
Nickel subsulfide	12035-72-2								
Thallium selenite	12039-52-0								
Dimethyl terephthalate (DMT)	120-61-6								
Zineb 12122-67	-7								
Triethylamine 121-44	-8								
N,N-Dimethylaniline 121-69	-7								
Malathion 121-75	-5								
Propham 122-42	-9								
1,2-Diphenylhydrazine 122-66	-7								
p-Chlorophenyl methyl sulfide	123-09-1								

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Hydroquinone	123-31-9								
Maleic hydrazide	123-33-1								
Maneb 12427-38	-2								
Dimethylamine 124-40	-3								
Chlordane (technical)	12789-03-6								
Antimony trioxide	1309-64-4								
Thallic oxide	1314-32-5								
Zinc phosphide	1314-84-7								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5								
Tricresol	1319-77-3								
Captan 133-06	-2								
Folpet	133-07-3								
Nickel carbonyl	13463-39-3								
Quinalphos 13593-03	-8								
Phenmedipham 13684-63	-4								
Thiram 137-26	-8								
Propazine 139-40	-2								
Aramite 140-57	-8								
Bidrin 141-66	-2								
Triethylene glycol monobutyl ether	143-22-6								
Sodium cyanide	143-33-9								
Diisopropyl methylphosphonate	1445-75-6								
Endothall 145-73	-3								
Nitrate 14797-55	-8								
Nitrite 14797-65	-0								
Sodium diethyldithiocarbamate	148-18-5								
Merphos 150-50	-5								
Potassium cyanide	151-50-8								
Ethyleneimine 151-56	-4								
Napropamide 15299-99	-7								
Carbofuran 1563-66	-2								
Trifluralin 1582-09	-8								

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Alar 1596-84	-5								
Alachlor	15972-60-8								
Prometon 1610-18	-0								
Aldicarb sulfone	1646-88-4								
Ethephon 16672-87	-0								
Methomyl 16752-77	-5								
Bromoxynil 1689-84	-5								
Bromoxynil octanoate	1689-99-2								
Benomyl	17804-35-2								
Isopropyl methyl phosphonic acid	1832-54-8								
Benefin 1861-40	-1								
Chlorothalonil	1897-45-6								
Oryzalin	19044-88-3								
Paraquat 1910-42	-5								
Propachlor	1918-16-7								
Vernam 1929-77	-7								
Nitrapyrin	1929-82-4								
Oxadiazon 19666-30	-9								
Butylate	2008-41-5								
p,p'-Dibromodiphenyl ether	2050-47-7								
Aluminum phosphide	20859-73-8								
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5								
Metribuzin 21087-64	-9								
Fluometuron 2164-17	-2								
Cyanazine	21725-46-2								
Molinate 2212-67	-1								
Fenamiphos 22224-92	-6								
Triallate	2303-17-5								
Phosolone 2310-17	-0								
Propargite 2312-35	-8								
Oxamyl 23135-22	-0								
Thiophanate-methyl 23564-05	-8								

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Pronamide 23950-58	-5								
Mepiquat chloride	24307-26-4								
Pentachlorocyclopentadiene 25329-35	-5								
Sodium azide	26628-22-8								
Norflurazon 27314-13	-2								
Thiobencarb 28249-77	-6								
Chlorpyrifos	2921-88-2								
Pirimiphos-methyl 29232-93	-7								
Methyl parathion	298-00-0								
Disulfoton	298-04-4								
Naled 300-76	-5								
Acephate 30560-19	-1								
Pentabromodiphenyl ether	32534-81-9								
Octabromodiphenyl ether	32536-52-0								
Diuron 330-54	-1								
Linuron	330-55-2								
Amitraz 33089-61	-1								
Asulam 3337-71	-1								
Diazomethane	334-88-3								
Isopropalin 33820-53	-0								
Tebuthiuron 34014-18	-1								
Acetochlor 34256-82	-1								
Diflubenzuron 35367-38	-5								
Pentafluoroethane	354-33-6								
Imazalil 35554-44	-0								
Hexabromodiphenyl ether	36483-60-0								
Iprodione 36734-19	-7								
Tetraethyldithiopyrophosphate 3689-24	-5								
Fosetyl-al	39148-24-8								
Danitol 39515-41	-8								
Tetrabromodiphenyl ether	40088-47-9								
Pendimethalin 40487-42	-1								

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Oxyfluorfen 42874-03	-3								
Bayleton 43121-43	-3								
Difenzoquat 43222-48	-6								
Cyanogen 460-19	-5								
Carbonyl sulfide	463-58-1								
Tribromodiphenyl ether	49690-94-0								
4-Aminopyridine 504-24	-5								
Vinclozolin	50471-44-8								
Potassium silver cyanide	506-61-6								
Silver cyanide	506-64-9								
Chlorine cyanide	506-77-4								
t-Butyl chloride	507-20-0								
Metolachlor 51218-45	-2								
Hexazinone 51235-04	-2								
Pydrin 51630-58	-1								
Ethyl carbamate	51-79-6								
Propylene glycol monoethyl ether	52125-53-8								
Cypermethrin 52315-07	-8								
Carboxin	5234-68-4								
Permethrin	52645-53-1								
2-Chloroacetophenone	532-27-4								
Barium cyanide	542-62-1								
Bis(chloromethyl) ether	542-88-1								
Copper cyanide	544-92-3								
Carbosulfan	55285-14-8								
Dimethipin 55290-64	-7								
Nitroguanidine	556-88-7								
Zinc cyanide	557-21-1								
Ethion 563-12	-2								
Tributyltin oxide	56-35-9								
Thallium acetate	563-68-8								
Parathion 56-38-	2								

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Strychnine 57-24-	9								
beta-Propiolactone 57-57-	8								
2,6-Dimethylphenol	576-26-1								
Metalaxyl	57837-19-1								
Tridiphan 58138-08	-2								
Terbacil 5902-51	-2								
Calcium cyanide	592-01-8								
Vinyl bromide	593-60-2								
Fluridone 59756-60	-4								
1,1,2-Trichloropropane 598-77	-6								
d-Limonene 5989-27	-5								
Propiconazole 60207-90	-1								
Dimethoate 60-51-	5								
Furmecyclox	60568-05-0								
technical Hexachlorocyclohexane (t-HCH)	608-73-1								
1,2,4-Tribromobenzene	615-54-3								
Phenylmercuric acetate	62-38-4								
Acifluorfen, sodium	62476-59-9								
Methyl isocyanate	624-83-9								
Dichlorvos	62-73-7								
Sodium fluoroacetate	62-74-8								
Selenourea 630-10	-4								
Ammonium acetate	631-61-8								
Carbaryl 63-25-	2								
Nonabromodiphenyl ether	63936-56-1								
Diethyl sulfate	64-67-5								
Chlorsulfuron 64902-72	-3								
Avermectin B1	65195-55-3								
Thallium carbonate	6533-73-9								
Cyromazine	66215-27-8								
Flutolanil	66332-96-5								
Tralomethrin 66841-25	-6								

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Amdro 67485-29	-4								
Prochloraz 67747-09	-5								
Cyhalothrin/karate 68085-85	-8								
N,N-Dimethylformamide 68-12-	2								
Baythroid 68359-37	-5								
Fluvalinate 69409-94	-5								
Haloxypop-methyl 69806-40	-2								
Hexachlorophene 70-30-	4								
Propanil 709-98	-8								
n-Butanol 71-36-	3								
Fomasafen 72178-02	-0								
Prometryn 7287-19	-6								
Phosmet 732-11	-6								
Sethoxydim 74051-80	-2								
Apollo 74115-24	-5								
Ally 74223-64	-6								
Radium 226,228	7440-14-4								
Thallium (I) sulfate	7446-18-6								
Selenium sulfide	7446-34-6								
Mercuric chloride	7487-94-7								
Hydrogen cyanide	74-90-8								
Propyleneimine 75-55-	8								
Propylene oxide	75-56-9								
Cacodylic acid	75-60-5								
Bromotrichloromethane 75-62-	7								
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4								
Trichloroacetic acid	76-03-9								
Hydrogen chloride	7647-01-0								
Glycidaldehyde	765-34-4								
Assure 76578-14	-8								
Phosphoric acid	7664-38-2								
Ammonia 7664-41	-7								

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Paclobutrazol 76738-62	-0								
Glufosinate-ammonium	77182-82-2								
White phosphorus	7723-14-0								
Trichlorocyclopentadiene 77323-84	-3								
Lactofen 77501-63	-4								
Aluminum sulfamate	7773-06-0								
Dimethyl sulfate	77-78-1								
Fluorine, soluble fluoride	7782-41-4								
Selenious acid	7783-00-8								
Arsine	7784-42-1								
Thallium chloride	7791-12-0								
Tetraethyl lead	78-00-2								
Phosphine 7803-51	-2								
Merphos oxide	78-48-8								
Savey 78587-05	-0								
Acrylamide 79-06-	1								
Acrylic acid	79-10-7								
Methyl chlorocarbonate	79-22-1								
Harmony 79277-27	-3								
2-Nitropropane 79-46-	9								
Creosote 8001-58	-9								
Bisphenol A	80-05-7								
Coke oven emissions	8007-45-2								
Demeton 8065-48	-3								
1,1,1,2-Tetrafluoroethane 811-97	-2								
Imazaquin 81335-37	-7								
Pursuit 81335-77	-5								
Warfarin 81-81-	2								
Triasulfuron 82097-50	-5								
1,6-Hexamethylene diisocyanate	822-06-0								
Isoxaben 82558-50	-7								
Bipenthrin	82657-04-3								

TABLE A-4c. Air Force ERP Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Londax 83055-99	-6								
Ametryn	834-12-8								
Rotenone 83-79-	4								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0								
Diquat 85-00-	7								
Phthalic anhydride	85-44-9								
Nustar 85509-19	-9								
Hexabromobenzene 87-82-	1								
Terbutryn	886-50-0								
Systhane	88671-89-0								
ortho-Anisidine 90-04-	0								
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9								
Chlorimuron-ethyl 90982-32	-4								
p-Chlorophenyl methyl sulfoxide	934-73-6								
Fonofos 944-22	-9								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5								
Methidathion	950-37-8								
3,4-Dimethylphenol 95-65-	8								
Diphenamid 957-51	-7								
2,4-Diaminotoluene	95-80-7								
1,2,4,5-Tetrachlorobenzene 95-94-	3								
Tetrachlorovinphos 961-11	-5								
Methyl acrylate	96-33-3								
Ethylene thiourea	96-45-7								
Furfural 98-01-	1								
Benzotrithloride 98-07-	7								
p-Chlorophenyl methyl sulfone	98-57-7								

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TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil Samples in Which They Were Detected)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Arsenic, inorganic	7440-38-2	97	1448	66457	35929	24614		2179	3735
Copper 7440-50	-8	88	1208	50289	29511	15254		1880	3644
Nickel 7440-02	-0	86	1210	57039	26844	25259		1505	3431
Manganese 7439-96	-5	91	1292	79631	24671	45710		5511	3739
Beryllium and compounds	7440-41-7	82	948	32338	22936	6267		571	2564
Cadmium 7440-43	-9	89	1191	33531	21455	8527		878	2671
Mercury, elemental	7439-97-6	85	981	25238	15513	6924		687	2114
Fluoranthene 206-44	-0	82	804	19046	13969	2891		315	1870
Pyrene 129-00	-0	80	788	17995	13293	2584		271	1846
Selenium and compounds	7782-49-2	91	1097	29852	12918	14537		989	1408
Chrysene 218-01	-9	79	733	16550	12649	1867		235	1799
Benzo [a] pyrene	50-32-8	79	703	16200	12519	1789		206	1686
Benzo(b)fluoranthene 205-99	-2	77	698	16074	12327	1719		254	1774
Dichloromethane 75-09-	2	102	1196	38619	11818	24092	1315	597	797
Benzo(a)anthracene 56-55-	3	79	693	15271	11639	1795		214	1623
Phenanthrene 85-01-	8	88	799	16919	11441	3617		287	1573
Naphthalene 91-20-	3	98	1064	36497	10334	24821	1107	551	684
Antimony 7440-36	-0	79	816	17502	10026	5518		969	989
Indeno[1,2,3-cd]pyrene 193-39	-5	78	604	12794	9663	1560		226	1345
Benzo(k)fluoranthene 207-08	-9	70	583	12391	9258	1505		215	1413
Benzo[g,h,i]perylene 191-24	-2	77	610	12001	8937	1537		206	1321
Silver 7440-22	-4	84	816	14338	7198	5106		715	1319
Ethylbenzene 100-41	-4	99	1059	37092	7192	27159	2368	259	114
Anthracene 120-12	-7	73	548	9520	6505	1980		174	860
Chlorobenzene 108-90	-7	75	551	31976	6130	24315	689	512	330
Molybdenum 7439-98	-7	48	465	14189	6094	6594		756	745
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	82	851	14775	6056	7233		418	1068
Trichloroethylene 79-01-	6	99	1141	126567	5624	115683	3219	1809	232
Dibenzo(a,h)anthracene 53-70-	3	65	470	7527	5346	1314		159	708

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	58	372	7051	5239	464 0		196	1152
Fluorene 86-73-	7	80	558	8658	4481	3372 0		195	610
Acenaphthene 83-32-	9	75	513	7992	4457	2777 1		175	582
Tetrachloroethylene 127-18	-4	85	846	49859	3733	43377 2081		576	92
cis-1,2-Dichloroethylene 156-59	-2	86	933	91436	3462	84061	1896 1741	276	
Cumene 98-82-	8	85	599	20364	3059	16945 104		194	62
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	56	288	4296	2698	452 0		49	1097
Dieldrin 60-57-	1	49	259	4043	2426	949 0		209	459
Acenaphthylene 208-96	-8	62	330	4508	2363	1713 0		120	312
o-Dinitrobenzene 528-29	-0	5	46 4493		1908	2404 0		125	56
Arochlor 1254	11097-69-1	41	162	2348	1883	47 0		37	381
Dibenzofuran 132-64	-9	54	267	3710	1681	1558 0		123	348
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	23	73	1822	1651	62 0		2	107
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	22	72	1763	1594	63 0		4	102
Dibutyl phthalate	84-74-2	66	420	4297	1533	2313 0		193	258
1,4-Dichlorobenzene 106-46	-7	81	516	17803	1362	15454 566		244	177
Trichlorofluoromethane 75-69-	4	63	353	9856	1221	7542 944		114	35
Polychlorinated biphenyls	1336-36-3	7	10	1210	1197	8 0		0	5
Carbon disulfide	75-15-0	64	539	9796	1179	7482 726		146	263
Cyanide, free	57-12-5	33	215	2765	1109	1222 0		180	254
1,2-Dichlorobenzene 95-50-	1	74	473	16996	1071	14952 592		238	143
trans-1,2-Dichloroethylene 156-60	-5	74	606	34809	945	32883 579		351	51
Heptachlor epoxide	1024-57-3	44	209	1624	794	447 0		135	248
1,2,4-Trichlorobenzene 120-82	-1	68	353	7296	772	5828 383		209	104
1,1-Dichloroethane 75-34-	3	77	528	26976	735	25174 793		248	26
Methyl tert-butyl ether	1634-04-4	63	436	13791	684	12361 374		347	25
Chromium (VI)	18540-29-9	16	103	1783	676	1051 0		22	34
Bromomethane 74-83-	9	59	370	6840	658	5606 410		143	23
Aldrin 309-00	-2	47	181	1294	598	355 0		127	214
1,3-Dichlorobenzene 541-73	-1	70	388	10787	596	9324 565		221	81
1,2-Dichloroethane 107-06	-2	76	546	17299	564	15973 579		147	36
Methoxychlor 72-43-	5	39	165	1134	563	209 0		116	246
Styrene 100-42	-5	67	308	6067	558	4652 679		132	46

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Bromoform 75-25-	2	52	248	6258	549	5158	308	186	57
Carbon tetrachloride	56-23-5	66	329	14195	540	12889	619	125	22
Endrin 72-20-	8	37	152	1163	538	273	0	122	230
1,1,1-Trichloroethane 71-55-	6	69	355	9644	521	8637	397	83	6
Heptachlor	76-44-8	44	184	1219	509	372	0	141	197
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	39	177	1296	488	490	0	140	178
Butyl benzyl phthalate	85-68-7	54	249	2002	479	1289	0	112	122
1,1,2-Trichloroethane 79-00-	5	62	305	9703	460	8694	401	121	27
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	27	54	540	423	59	0	5	53
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	44	155	1200	417	422	0	161	200
Diethyl phthalate	84-66-2	63	316	2611	416	1998	0	115	82
beta-Hexachlorocyclohexane 319-85	-7	43	162	1226	385	499	0	160	182
1,1,2,2-Tetrachloroethane 79-34-	5	52	196	6782	380	5766	457	143	36
Hexachlorobutadiene 87-68-	3	46	202	6258	377	5277	334	204	66
Bromochloromethane 74-97-	5	24	78	4762	370	4190	70	109	23
Ethyl chloride	75-00-3	67	327	9386	363	8422	435	142	24
Dibromochloromethane 124-48	-1	59	283	6241	343	5403	308	164	23
Dichlorodifluoromethane 75-71-	8	65	293	7534	338	5998	1045	125	28
gamma-Hexachlorocyclohexane 58-89-	9	42	166	1163	330	495	0	187	151
1,2-Dichloropropane 78-87-	5	57	255	8358	319	7584	326	107	22
Bromodichloromethane 75-27-	4	65	369	7027	288	6216	322	178	23
o-Chlorotoluene 95-49-	8	33	121	4697	281	4287	0	105	24
1,2-Dibromo-3-chloropropane 96-12-	8	31	102	4477	264	4076	0	105	32
2,4-Dinitrotoluene 121-14	-2	30	97	1397	262	988	0	96	51
1,1,1,2-Tetrachloroethane 630-20	-6	20	83	21450	259	16661	0	4444	86
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	8	43	786	258	500	0	10	18
1,2,3-Trichloropropane 96-18-	4	34	96	4453	255	4072	0	104	22
2,4,6-Trinitrotoluene 118-96	-7	6	28	270	225	35	0	2	8
N-Nitrosodiphenylamine 86-30-	6	37	99	1461	224	1086	0	94	57
4-Methylphenol 106-44	-5	45	189	2024	195	1557	0	114	158
Arochlor 1016	12674-11-2	18	39	373	156	41	0	27	149
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	10	37	187	150	4	0	6	27
2-Methylphenol 95-48-	7	40	138	1669	142	1380	0	106	41

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
2,4-Dimethylphenol 105-67	-9	46	161	1890	128	1615	0	106	41
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	6	22	330	125	205	0	0	0
Pentachlorophenol 87-86-	5	36	116	1739	123	1480	0	95	41
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	18	52	185	110	39	0	11	25
Hexachlorobenzene 118-74	-1	18	51	1150	80	934	0	94	42
beta-Chloronaphthalene 91-58-	7	19	46	1200	77	948	0	92	83
2,6-Dinitrotoluene 606-20	-2	24	70	1204	72	1002	0	92	38
p-Chloroaniline 106-47	-8	21	62	1177	70	979	0	93	35
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	34	121	66	31	0	5	19
Hexachloroethane 67-72-	1	17	44	1132	62	941	0	92	37
Isophorone 78-59-	1	26	63	1155	59	964	0	96	36
1,4-Dioxane 123-91	-1	13	51	1837	58	1376	393	2	8
Pentachloronitrobenzene 82-68-	8	1	1	138	58	3	0	10	67
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	23	98	2224	55	930	1238	1	0
p-Nitrophenol 100-02	-7	23	61	1538	52	1160	0	202	124
N-Nitroso-di-N-propylamine 621-64	-7	29	70	1157	51	976	0	93	37
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	14	24	132	50	17	0	23	42
1,1-Biphenyl 92-52-	4	8	14	75	43	32	0	0	0
Nitrobenzene 98-95-	3	26	56	1159	40	990	0	94	35
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	32	117	39	63	0	7	8
Benzaldehyde 100-52	-7	6	9	44	39	2	0	0	3
Toxaphene 8001-35	-2	9	17	276	38	38	0	101	99
2,4-Dichlorophenol 120-83	-2	26	73	1197	36	1033	0	92	36
Bis(chloroethyl)ether 111-44	-4	20	50	1155	36	986	0	92	41
Dinoseb 88-85-	7	10	13	48	36	12	0	0	0
2,4,6-Trichlorophenol 88-06-	2	21	49	1115	34	951	0	92	38
Dalapon (sodium salt)	75-99-0	13	20	89	33	37	0	8	11
2,4,5-Trichlorophenol 95-95-	4	19	43	1111	31	951	0	92	37
2,4,5-Trichlorophenoxyacetic acid	93-76-5	13	41	127	31	70	0	1	25
Dicamba 1918-00	-9	13	25	57	31	22	0	2	2
2-Chlorophenol 95-57-	8	23	66	1356	30	1195	0	94	37
Bis(2-chloroethoxy)methane 111-91	-1	15	40	1096	29	940	0	92	35
Caprolactam 105-60	-2	8	23	172	28	138	0	6	0

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Bis(2-chloroisopropyl) ether	108-60-1	12	37	1104	26	948 0		92	38
Ethyl acetate	141-78-6	2	8	43	26	17 0		0	0
2,4-Dinitrophenol 51-28-	5	16	46	1118	25	966 0		92	35
Acetophenone 98-86-	2	12	34	101	25	67 6		0	3
Ethylene glycol	107-21-1	2	9	34	25	8 0		1	0
Pyridine 110-86	-1	6	7	27	23	3 0		0	1
Vinyl acetate	108-05-4	15	31	390	15	65 308		2	0
Vanadium pentoxide	1314-62-1	2	8	169	15	154 0		0	0
Uranium, natural	7440-61-1	2	8	169	15	154 0		0	0
Chloramben 133-90	-4	1	13	43	13	30 0		0	0
1,3,5-Trinitrobenzene 99-35-	4	4	5	23	11	10 0		0	2
3-Methylphenol 108-39	-4	5	16	52	8	44 0		0	0
Hydrazine/hydrazine sulfate	302-01-2	1	3	17	7	8 0		0	2
Chlorobenzilate 510-15	-6	2	4	14	6	8 0		0	0
Aniline 62-	53-3	6	6	12	4	6 0		0	2
Benzidine 92-87-	5	4	4	9	4	2 0		0	3
Simazine 122-34	-9			4	4	0 0		0	0
N-Nitrosodimethylamine 62-75-	9	6	28	397	3	388 0		5	1
Acrylonitrile 107-13	-1	4	10	19	3	15 0		0	1
Picloram 1918-02	-1	1	9	10	3	6 0		0	1
Propylene glycol	57-55-6			2	2	0 0		0	0
2,3,4,6-Tetrachlorophenol 58-90-	2	5	7	13	1	12 0		0	0
Atrazine 1912-24	-9	1	1	6	1	3 0		2	0
Dacthal 1861-32	-1	1	4	5	1	4 0		0	0
Azobenzene 103-33	-3	3	3	4	1	2 0		0	1
Asbestos	1332-21-4			1	1	0 0		0	0
Mirex 2385-85	-5	1	1	1	1	0 0		0	0
Pentachlorobenzene 608-93	-5	1	1	1	1	0 0		0	0
N-Nitrosopyrrolidine 930-55	-2	1	1	1	1	0 0		0	0
n-Heptane 142-82	-5	5	19	638	0	5 633		0	0
Benzyl chloride	100-44-7	3	4	338	0	0 338		0	0
Acetaldehyde 75-07-	0	2	3	56	0	51 5		0	0
Formaldehyde 50-00-	0	1	1	47	0	47 0		0	0

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Methanol 67-56-	1	1	1	14	0	13	1	0	0
Diphenylamine 122-39	-4	2	3	10	0	10	0	0	0
Chlorine 7782-50	-5	1	1	9	0	0	0	9	0
Chromium III, insoluble salts	16065-83-1	1	2	7	0	7	0	0	0
Dibromodichloromethane 594-18	-3	2	2	5	0	5	0	0	0
Formic acid	64-18-6	2	2	5	0	5	0	0	0
N-Nitrosodiethylamine 55-18-	5	2	3	4	0	4	0	0	0
Methacrylonitrile 126-98	-7	1	2	3	0	3	0	0	0
Isobutyl alcohol	78-83-1			2	0	1	0	1	0
N-Nitroso-di-n-butylamine 924-16	-3	1	2	2	0	2	0	0	0
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1	0	1	0	0	0
Allyl chloride	107-05-1			1	0	0	1	0	0
Cyclohexanone 108-94	-1			1	0	1	0	0	0
Chlorodifluoromethane 75-45-	6	1	1	1	0	1	0	0	0
Captafol 2425-06	-1								
Dodine	2439-10-3								
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7								
Nitric Oxide	10102-43-9								
Thallium nitrate	10102-45-1								
Express 101200-4	8-0								
Chlorpropham 101-21	-3								
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1								
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8								
Methamidophos	10265-92-6								
di(2-ethylhexyl)Adipate 103-23	-1								
Resmethrin 10453-86	-8								
Monchloramine	10599-90-3								
1,4-Dibromobenzene 106-37	-6								
Quinone 106-51	-4								
1,2-Epoxybutane	106-88-7								
Epichlorohydrin 106-89	-8								
Ethylene diamine	107-15-3								
Glyphosate	1071-83-6								

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Allyl alcohol	107-18-6								
Propargyl alcohol	107-19-7								
Chloromethyl methyl ether	107-30-2								
Propylene glycol monomethyl ether	107-98-2								
Maleic anhydride	108-31-6								
m-Phenylenediamine	108-45-2								
Cyclohexylamine	108-91								
1-Chlorobutane	109-69-3								
2-Methoxyethanol	109-86-4								
Furan	110-00								
2-Ethoxyethanol	110-80								
N-Nitrosodiethanolamine	1116-54								
Adiponitrile	111-69								
Baygon	114-26								
Endosulfan	115-29								
Aldicarb	116-06								
Decabromodiphenyl ether (DBDPE)	1163-19-5								
3,3-Dimethylbenzidine	119-93								
Nickel subsulfide	12035-72-2								
Thallium selenite	12039-52-0								
Dimethyl terephthalate (DMT)	120-61-6								
Zineb	12122-67								
Triethylamine	121-44								
N,N-Dimethylaniline	121-69								
Malathion	121-75								
Propham	122-42								
1,2-Diphenylhydrazine	122-66								
p-Chlorophenyl methyl sulfide	123-09-1								
Hydroquinone	123-31-9								
Maleic hydrazide	123-33-1								
Maneb	12427-38								
Dimethylamine	124-40								
Chlordane (technical)	12789-03-6								

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Antimony trioxide	1309-64-4								
Thallic oxide	1314-32-5								
Zinc phosphide	1314-84-7								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5								
Tricresol	1319-77-3								
Captan 133-06	-2								
Folpet	133-07-3								
Nickel carbonyl	13463-39-3								
Quinalphos 13593-03	-8								
Phenmedipham 13684-63	-4								
Thiram 137-26	-8								
Propazine 139-40	-2								
Aramite 140-57	-8								
Bidrin 141-66	-2								
Triethylene glycol monobutyl ether	143-22-6								
Sodium cyanide	143-33-9								
Diisopropyl methylphosphonate	1445-75-6								
Endothall 145-73	-3								
Nitrate 14797-55	-8								
Nitrite 14797-65	-0								
Sodium diethyldithiocarbamate	148-18-5								
Merphos 150-50	-5								
Potassium cyanide	151-50-8								
Ethyleneimine 151-56	-4								
Napropamide 15299-99	-7								
Carbofuran 1563-66	-2								
Trifluralin 1582-09	-8								
Alar 1596-84	-5								
Alachlor	15972-60-8								
Prometon 1610-18	-0								
Aldicarb sulfone	1646-88-4								
Ethephon 16672-87	-0								
Methomyl 16752-77	-5								

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Bromoxynil 1689-84	-5								
Bromoxynil octanoate	1689-99-2								
Benomyl	17804-35-2								
Isopropyl methyl phosphonic acid	1832-54-8								
Benefin 1861-40	-1								
Chlorothalonil	1897-45-6								
Oryzalin	19044-88-3								
Paraquat 1910-42	-5								
Propachlor	1918-16-7								
Vernam 1929-77	-7								
Nitrapyrin	1929-82-4								
Oxadiazon 19666-30	-9								
Butylate	2008-41-5								
p,p'-Dibromodiphenyl ether	2050-47-7								
Aluminum phosphide	20859-73-8								
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5								
Metribuzin 21087-64	-9								
Fluometuron 2164-17	-2								
Cyanazine	21725-46-2								
Molinate 2212-67	-1								
Fenamiphos 22224-92	-6								
Triallate	2303-17-5								
Phosolone 2310-17	-0								
Propargite 2312-35	-8								
Oxamyl 23135-22	-0								
Thiophanate-methyl 23564-05	-8								
Pronamide 23950-58	-5								
Mepiquat chloride	24307-26-4								
Pentachlorocyclopentadiene 25329-35	-5								
Sodium azide	26628-22-8								
Norflurazon 27314-13	-2								
Thiobencarb 28249-77	-6								
Chlorpyrifos	2921-88-2								

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Pirimiphos-methyl 29232-93	-7								
Methyl parathion	298-00-0								
Disulfoton	298-04-4								
Naled 300-76	-5								
Acephate 30560-19	-1								
Pentabromodiphenyl ether	32534-81-9								
Octabromodiphenyl ether	32536-52-0								
Diuron 330-54	-1								
Linuron	330-55-2								
Amitraz 33089-61	-1								
Asulam 3337-71	-1								
Diazomethane	334-88-3								
Isopropalin 33820-53	-0								
Tebuthiuron 34014-18	-1								
Acetochlor 34256-82	-1								
Diflubenzuron 35367-38	-5								
Pentafluoroethane	354-33-6								
Imazalil 35554-44	-0								
Hexabromodiphenyl ether	36483-60-0								
Iprodione 36734-19	-7								
Tetraethyldithiopyrophosphate 3689-24	-5								
Fosetyl-al	39148-24-8								
Danitol 39515-41	-8								
Tetrabromodiphenyl ether	40088-47-9								
Pendimethalin 40487-42	-1								
Oxyfluorfen 42874-03	-3								
Bayleton 43121-43	-3								
Difenzoquat 43222-48	-6								
Cyanogen 460-19	-5								
Carbonyl sulfide	463-58-1								
Tribromodiphenyl ether	49690-94-0								
4-Aminopyridine 504-24	-5								
Vinclozolin	50471-44-8								

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Potassium silver cyanide	506-61-6								
Silver cyanide	506-64-9								
Chlorine cyanide	506-77-4								
t-Butyl chloride	507-20-0								
Metolachlor 51218-45	-2								
Hexazinone 51235-04	-2								
Pydrin 51630-58	-1								
Ethyl carbamate	51-79-6								
Propylene glycol monoethyl ether	52125-53-8								
Cypermethrin 52315-07	-8								
Carboxin	5234-68-4								
Permethrin	52645-53-1								
2-Chloroacetophenone	532-27-4								
Barium cyanide	542-62-1								
Bis(chloromethyl) ether	542-88-1								
Copper cyanide	544-92-3								
Carbosulfan	55285-14-8								
Dimethipin 55290-64	-7								
Nitroguanidine	556-88-7								
Zinc cyanide	557-21-1								
Ethion 563-12	-2								
Tributyltin oxide	56-35-9								
Thallium acetate	563-68-8								
Parathion 56-38-	2								
Strychnine 57-24-	9								
beta-Propiolactone 57-57-	8								
2,6-Dimethylphenol	576-26-1								
Metalaxyl	57837-19-1								
Tridiphane 58138-08	-2								
Terbacil 5902-51	-2								
Calcium cyanide	592-01-8								
Vinyl bromide	593-60-2								
Fluridone 59756-60	-4								

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
1,1,2-Trichloropropane 598-77	-6								
d-Limonene 5989-27	-5								
Propiconazole 60207-90	-1								
Dimethoate 60-51-	5								
Furmecycloz	60568-05-0								
technical Hexachlorocyclohexane (t-HCH)	608-73-1								
1,2,4-Tribromobenzene	615-54-3								
Phenylmercuric acetate	62-38-4								
Acifluorfen, sodium	62476-59-9								
Methyl isocyanate	624-83-9								
Dichlorvos	62-73-7								
Sodium fluoroacetate	62-74-8								
Selenourea 630-10	-4								
Ammonium acetate	631-61-8								
Carbaryl 63-25-	2								
Nonabromodiphenyl ether	63936-56-1								
Diethyl sulfate	64-67-5								
Chlorsulfuron 64902-72	-3								
Avermectin B1	65195-55-3								
Thallium carbonate	6533-73-9								
Cyromazine	66215-27-8								
Flutolanil	66332-96-5								
Tralomethrin 66841-25	-6								
Amdro 67485-29	-4								
Prochloraz 67747-09	-5								
Cyhalothrin/karate 68085-85	-8								
N,N-Dimethylformamide 68-12-	2								
Baythroid 68359-37	-5								
Fluvalinate 69409-94	-5								
Haloxypop-methyl 69806-40	-2								
Hexachlorophene 70-30-	4								
Propanil 709-98	-8								
n-Butanol 71-36-	3								

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Fomasafen 72178-02	-0								
Prometryn 7287-19	-6								
Phosmet 732-11	-6								
Sethoxydim 74051-80	-2								
Apollo 74115-24	-5								
Ally 74223-64	-6								
Radium 226,228	7440-14-4								
Thallium (I) sulfate	7446-18-6								
Selenium sulfide	7446-34-6								
Mercuric chloride	7487-94-7								
Hydrogen cyanide	74-90-8								
Propyleneimine 75-55-	8								
Propylene oxide	75-56-9								
Cacodylic acid	75-60-5								
Bromotrichloromethane 75-62-	7								
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4								
Trichloroacetic acid	76-03-9								
Hydrogen chloride	7647-01-0								
Glycidaldehyde	765-34-4								
Assure 76578-14	-8								
Phosphoric acid	7664-38-2								
Ammonia 7664-41	-7								
Paclobutrazol 76738-62	-0								
Glufosinate-ammonium	77182-82-2								
White phosphorus	7723-14-0								
Trichlorocyclopentadiene 77323-84	-3								
Lactofen 77501-63	-4								
Aluminum sulfamate	7773-06-0								
Dimethyl sulfate	77-78-1								
Fluorine, soluble fluoride	7782-41-4								
Selenious acid	7783-00-8								
Arsine	7784-42-1								
Thallium chloride	7791-12-0								

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Tetraethyl lead	78-00-2								
Phosphine 7803-51	-2								
Merphos oxide	78-48-8								
Savey 78587-05	-0								
Acrylamide 79-06-	1								
Acrylic acid	79-10-7								
Methyl chlorocarbonate	79-22-1								
Harmony 79277-27	-3								
2-Nitropropane 79-46-	9								
Creosote 8001-58	-9								
Bisphenol A	80-05-7								
Coke oven emissions	8007-45-2								
Demeton 8065-48	-3								
1,1,1,2-Tetrafluoroethane 811-97	-2								
Imazaquin 81335-37	-7								
Pursuit 81335-77	-5								
Warfarin 81-81-	2								
Triasulfuron 82097-50	-5								
1,6-Hexamethylene diisocyanate	822-06-0								
Isoxaben 82558-50	-7								
Biphenthrin	82657-04-3								
Londax 83055-99	-6								
Ametryn	834-12-8								
Rotenone 83-79-	4								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0								
Diquat 85-00-	7								
Phthalic anhydride	85-44-9								
Nustar 85509-19	-9								
Hexabromobenzene 87-82-	1								
Terbutryn	886-50-0								
Systhane	88671-89-0								
ortho-Anisidine 90-04-	0								

TABLE A-4d. Air Force ERP Soil Samples: IRIS Chemicals of Interest Ranked by Number Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9								
Chlorimuron-ethyl 90982-32	-4								
p-Chlorophenyl methyl sulfoxide	934-73-6								
Fonofos 944-22	-9								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5								
Methidathion	950-37-8								
3,4-Dimethylphenol 95-65-	8								
Diphenamid 957-51	-7								
2,4-Diaminotoluene	95-80-7								
1,2,4,5-Tetrachlorobenzene 95-94-	3								
Tetrachlorovinphos 961-11	-5								
Methyl acrylate	96-33-3								
Ethylene thiourea	96-45-7								
Furfural 98-01-	1								
Benzotrichloride 98-07-	7								
p-Chlorophenyl methyl sulfone	98-57-7								

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TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Trichloroethylene 79-01-	6	99	1141	126567	5624	115683	3219	1809	232
cis-1,2-Dichloroethylene 156-59	-2	86	933	91436	3462	84061	1896	1741	276
Manganese 7439-96	-5	91	1292	79631	24671	45710	0	5511	3739
Tetrachloroethylene 127-18	-4	85	846	49859	3733	43377	2081	576	92
trans-1,2-Dichloroethylene 156-60	-5	74	606	34809	945	32883	579	351	51
Ethylbenzene 100-41	-4	99	1059	37092	7192	27159	2368	259	114
Nickel 7440-02	-0	86	1210	57039	26844	25259	0	1505	3431
1,1-Dichloroethane 75-34-	3	77	528	26976	735	25174	793	248	26
Naphthalene 91-20-	3	98	1064	36497	10334	24821	107	551	684
Arsenic, inorganic	7440-38-2	97	1448	66457	35929	24614	0	2179	3735
Chlorobenzene 108-90	-7	75	551	31976	6130	24315	689	512	330
Dichloromethane 75-09-	2	102	1196	38619	11818	24092	1315	597	797
Cumene 98-82-	8	85	599	20364	3059	16945	104	194	62
1,1,1,2-Tetrachloroethane 630-20	-6	20	83	21450	259	16661	0	4444	86
1,2-Dichloroethane 107-06	-2	76	546	17299	564	15973	579	147	36
1,4-Dichlorobenzene 106-46	-7	81	516	17803	1362	15454	566	244	177
Copper 7440-50	-8	88	1208	50289	29511	15254	0	1880	3644
1,2-Dichlorobenzene 95-50-	1	74	473	16996	1071	14952	592	238	143
Selenium and compounds	7782-49-2	91	1097	29852	12918	14537	0	989	1408
Carbon tetrachloride	56-23-5	66	329	14195	540	12889	619	125	22
Methyl tert-butyl ether	1634-04-4	63	436	13791	684	12361	374	347	25
1,3-Dichlorobenzene 541-73	-1	70	388	10787	596	9324	565	221	81
1,1,2-Trichloroethane	79-00-5	62	305	9703	460	8694	401	121	27
1,1,1-Trichloroethane	71-55-6	69	355	9644	521	8637	397	83	6
Cadmium 7440-43	-9	89	1191	33531	21455	8527	0	878	2671
Ethyl chloride	75-00-3	67	327	9386	363	8422	435	142	24
1,2-Dichloropropane	78-87-5	57	255	8358	319	7584	326	107	22
Trichlorofluoromethane 75-69-	4	63	353	9856	1221	7542	944	114	35
Carbon disulfide	75-15-0	64	539	9796	1179	7482	726	146	263

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	82	851	14775	6056	7233	0 418		1068
Mercury, elemental	7439-97-6	85	981	25238	15513	6924	0 687		2114
Molybdenum 7439-98	-7	48	465	14189	6094	6594	0 756		745
Beryllium and compounds	7440-41-7	82	948	32338	22936	6267	0 571		2564
Bromodichloromethane	75-27-4	65	369	7027	288	6216	322 178		23
Dichlorodifluoromethane	75-71-8	65	293	7534	338	5998	1045 125		28
1,2,4-Trichlorobenzene	120-82-1	68	353	7296	772	5828	383 209		104
1,1,2,2-Tetrachloroethane	79-34-5	52	196	6782	380	5766	457 143		36
Bromomethane	74-83-9	59	370	6840	658	5606	410 143		23
Antimony 7440-36	-0	79	816	17502	10026	5518	0 969		989
Dibromochloromethane	124-48-1	59	283	6241	343	5403	308 164		23
Hexachlorobutadiene	87-68-3	46	202	6258	377	5277	334 204		66
Bromoform	75-25-2	52	248	6258	549	5158	308 186		57
Silver 7440-22	-4	84	816	14338	7198	5106	0 715		1319
Styrene	100-42-5	67	308	6067	558	4652	679 132		46
o-Chlorotoluene	95-49-8	33	121	4697	281	4287	0 105		24
Bromochloromethane	74-97-5	24	78	4762	370	4190	70 109		23
1,2-Dibromo-3-chloropropane	96-12-8	31	102	4477	264	4076	0 105		32
1,2,3-Trichloropropane	96-18-4	34	96	4453	255	4072	0 104		22
Phenanthrene 85-01-	8	88	799	16919	11441	3617	1 287		1573
Fluorene 86-73-	7	80	558	8658	4481	3372	0 195		610
Fluoranthene 206-44	-0	82	804	19046	13969	2891	1 315		1870
Acenaphthene 83-32-	9	75	513	7992	4457	2777	1 175		582
Pyrene 129-00	-0	80	788	17995	13293	2584	1 271		1846
o-Dinitrobenzene 528-29	-0	5	46	4493	1908	2404	0 125		56
Dibutyl phthalate	84-74-2	66	420	4297	1533	2313	0 193		258
Diethyl phthalate	84-66-2	63	316	2611	416	1998	0 115		82
Anthracene 120-12	-7	73	548	9520	6505	1980	1 174		860
Chrysene 218-01	-9	79	733	16550	12649	1867	0 235		1799
Benzo(a)anthracene 56-55-	3	79	693	15271	11639	1795	0 214		1623
Benzo [a] pyrene	50-32-8	79	703	16200	12519	1789	0 206		1686
Benzo(b)fluoranthene 205-99	-2	77	698	16074	12327	1719	0 254		1774

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Acenaphthylene 208-96	-8	62	330	4508	2363	1713	0	120	312
2,4-Dimethylphenol	105-67-9	46	161	1890	128	1615	0	106	41
Indeno[1,2,3-cd]pyrene 193-39	-5	78	604	12794	9663	1560	0	226	1345
Dibenzofuran 132-64	-9	54	267	3710	1681	1558	0	123	348
4-Methylphenol	106-44-5	45	189	2024	195	1557	0	114	158
Benzo[g,h,i]perylene 191-24	-2	77	610	12001	8937	1537	0	206	1321
Benzo(k)fluoranthene 207-08	-9	70	583	12391	9258	1505	0	215	1413
Pentachlorophenol	87-86-5	36	116	1739	123	1480	0	95	41
2-Methylphenol	95-48-7	40	138	1669	142	1380	0	106	41
1,4-Dioxane 123-91	-1	13	51	1837	58	1376	393	2	8
Dibenzo(a,h)anthracene 53-70-	3	65	470	7527	5346	1314	0	159	708
Butyl benzyl phthalate	85-68-7	54	249	2002	479	1289	0	112	122
Cyanide, free	57-12-5	33	215	2765	1109	1222	0	180	254
2-Chlorophenol 95-57-	8	23	66	1356	30	1195	0	94	37
p-Nitrophenol 100-02	-7	23	61	1538	52	1160	0	202	124
N-Nitrosodiphenylamine	86-30-6	37	99	1461	224	1086	0	94	57
Chromium (VI)	18540-29-9	16	103	1783	676	1051	0	22	34
2,4-Dichlorophenol 120-83	-2	26	73	1197	36	1033	0	92	36
2,6-Dinitrotoluene 606-20	-2	24	70	1204	72	1002	0	92	38
Nitrobenzene 98-95-	3	26	56	1159	40	990	0	94	35
2,4-Dinitrotoluene	121-14-2	30	97	1397	262	988	0	96	51
Bis(chloroethyl)ether 111-44	-4	20	50	1155	36	986	0	92	41
p-Chloroaniline 106-47	-8	21	62	1177	70	979	0	93	35
N-Nitroso-di-N-propylamine 621-64	-7	29	70	1157	51	976	0	93	37
2,4-Dinitrophenol 51-28-	5	16	46	1118	25	966	0	92	35
Isophorone 78-59-	1	26	63	1155	59	964	0	96	36
2,4,6-Trichlorophenol 88-06-	2	21	49	1115	34	951	0	92	38
2,4,5-Trichlorophenol 95-95-	4	19	43	1111	31	951	0	92	37
Dieldrin 60-57-	1	49	259	4043	2426	949	0	209	459
beta-Chloronaphthalene 91-58-	7	19	46	1200	77	948	0	92	83
Bis(2-chloroisopropyl) ether	108-60-1	12	37	1104	26	948	0	92	38
Hexachloroethane 67-72-	1	17	44	1132	62	941	0	92	37

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Bis(2-chloroethoxy)methane 111-91	-1	15	40	1096	29	940	0 92		35
Hexachlorobenzene 118-74	-1	18	51	1150	80	934	0 94		42
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	23	98	2224	55	930	1238 1		0
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	8	43	786	258	500	0 10		18
beta-Hexachlorocyclohexane	319-85-7	43	162	1226	385	499	0 160		182
gamma-Hexachlorocyclohexane	58-89-9	42	166	1163	330	495	0 187		151
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	39	177	1296	488	490	0 140		178
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	58	372	7051	5239	464	0 196		1152
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	56	288	4296	2698	452	0 49		1097
Heptachlor epoxide	1024-57-3	44	209	1624	794	447	0 135		248
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	44	155	1200	417	422	0 161		200
N-Nitrosodimethylamine 62-75-	9	6	28	397	3	388	0 5		1
Heptachlor	76-44-8	44	184	1219	509	372	0 141		197
Aldrin	309-00-2	47	181	1294	598	355	0 127		214
Endrin	72-20-8	37	152	1163	538	273	0 122		230
Methoxychlor	72-43-5	39	165	1134	563	209	0 116		246
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	6	22	330	125	205	0 0		0
Vanadium pentoxide	1314-62-1	2	8	169	15	154	0 0		0
Uranium, natural	7440-61-1	2	8	169	15	154	0 0		0
Caprolactam 105-60	-2	8	23	172	28	138	0 6		0
2,4,5-Trichlorophenoxyacetic acid	93-76-5	13	41	127	31	70	0 1		25
Acetophenone 98-86-	2	12	34	101	25	67	6 0		3
Vinyl acetate	108-05-4	15	31	390	15	65	308 2		0
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	22	72	1763	1594	63	0 4		102
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	32	117	39	63	0 7		8
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	23	73	1822	1651	62	0 2		107
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	27	54	540	423	59	0 5		53
Acetaldehyde 75-07-	0	2	3	56	0	51	5 0		0
Arochlor 1254	11097-69-1	41	162	2348	1883	47	0 37		381
Formaldehyde 50-00-	0	1	1	47	0	47	0 0		0
3-Methylphenol 108-39	-4	5	16	52	8	44	0 0		0
Arochlor 1016	12674-11-2	18	39	373	156	41	0 27		149

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	18	52	185	110	39	0	11	25
Toxaphene 8001-35	-2	9	17	276	38	38	0	101	99
Dalapon (sodium salt)	75-99-0	13	20	89	33	37	0	8	11
2,4,6-Trinitrotoluene 118-96	-7	6	28	270	225	35	0	2	8
1,1-Biphenyl 92-52-	4	8	14	75	43	32	0	0	0
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	34	121	66	31	0	5	19
Chloramben 133-90	-4	1	13	43	13	30	0	0	0
Dicamba 1918-00	-9	13	25	57	31	22	0	2	2
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	14	24	132	50	17	0	23	42
Ethyl acetate	141-78-6	2	8	43	26	17	0	0	0
Acrylonitrile 107-13	-1	4	10	19	3	15	0	0	1
Methanol 67-56-	1	1	1	14	0	13	1	0	0
Dinoseb 88-85-	7	10	13	48	36	12	0	0	0
2,3,4,6-Tetrachlorophenol 58-90-	2	5	7	13	1	12	0	0	0
1,3,5-Trinitrobenzene 99-35-	4	4	5	23	11	10	0	0	2
Diphenylamine 122-39	-4	2	3	10	0	10	0	0	0
Polychlorinated biphenyls	1336-36-3	7	10	1210	1197	8	0	0	5
Ethylene glycol	107-21-1	2	9	34	25	8	0	1	0
Hydrazine/hydrazine sulfate	302-01-2	1	3	17	7	8	0	0	2
Chlorobenzilate 510-15	-6	2	4	14	6	8	0	0	0
Chromium III, insoluble salts	16065-83-1	1	2	7	0	7	0	0	0
Aniline 62-	53-3	6	6	12	4	6	0	0	2
Picloram 1918-02	-1	1	9	10	3	6	0	0	1
n-Heptane 142-82	-5	5	19	638	0	5	633	0	0
Dibromodichloromethane 594-18	-3	2	2	5	0	5	0	0	0
Formic acid	64-18-6	2	2	5	0	5	0	0	0
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	10	37	187	150	4	0	6	27
Dacthal 1861-32	-1	1	4	5	1	4	0	0	0
N-Nitrosodiethylamine 55-18-	5	2	3	4	0	4	0	0	0
Pentachloronitrobenzene 82-68-	8	1	1	138	58	3	0	10	67
Pyridine 110-86	-1	6	7	27	23	3	0	0	1
Atrazine 1912-24	-9	1	1	6	1	3	0	2	0

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Methacrylonitrile 126-98	-7	1	2	3	0	3	0	0	0
Benzaldehyde 100-52	-7	6	9	44	39	2	0	0	3
Benzidine 92-87-	5	4	4	9	4	2	0	0	3
Azobenzene 103-33	-3	3	3	4	1	2	0	0	1
N-Nitroso-di-n-butylamine 924-16	-3	1	2	2	0	2	0	0	0
Isobutyl alcohol	78-83-1			2	0	1	0	1	0
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1	0	1	0	0	0
Cyclohexanone 108-94	-1			1	0	1	0	0	0
Chlorodifluoromethane 75-45-	6	1	1	1	0	1	0	0	0
Benzyl chloride	100-44-7	3	4	338	0	0	338	0	0
Chlorine 7782-50	-5	1	1	9	0	0	0	9	0
Simazine	122-34-9			4	4	0	0	0	0
Propylene glycol	57-55-6			2	2	0	0	0	0
Allyl chloride	107-05-1			1	0	0	1	0	0
Asbestos	1332-21-4			1	1	0	0	0	0
Mirex 2385-85	-5	1	1	1	1	0	0	0	0
Pentachlorobenzene 608-93	-5	1	1	1	1	0	0	0	0
N-Nitrosopyrrolidine 930-55	-2	1	1	1	1	0	0	0	0
Captafol 2425-06	-1								
Dodine	2439-10-3								
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7								
Nitric Oxide	10102-43-9								
Thallium nitrate	10102-45-1								
Express 101200-4	8-0								
Chlorpropham 101-21	-3								
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1								
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8								
Methamidophos	10265-92-6								
di(2-ethylhexyl)Adipate 103-23	-1								
Resmethrin 10453-86	-8								
Monchloramine	10599-90-3								
1,4-Dibromobenzene 106-37	-6								
Quinone 106-51	-4								

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
1,2-Epoxybutane	106-88-7								
Epichlorohydrin 106-89	-8								
Ethylene diamine	107-15-3								
Glyphosate	1071-83-6								
Allyl alcohol	107-18-6								
Propargyl alcohol	107-19-7								
Chloromethyl methyl ether	107-30-2								
Propylene glycol monomethyl ether	107-98-2								
Maleic anhydride	108-31-6								
m-Phenylenediamine	108-45-2								
Cyclohexylamine 108-91	-8								
1-Chlorobutane	109-69-3								
2-Methoxyethanol	109-86-4								
Furan 110-00	-9								
2-Ethoxyethanol 110-80	-5								
N-Nitrosodiethanolamine 1116-54	-7								
Adiponitrile 111-69	-3								
Baygon 114-26	-1								
Endosulfan 115-29	-7								
Aldicarb 116-06	-3								
Decabromodiphenyl ether (DBDPE)	1163-19-5								
3,3-Dimethylbenzidine 119-93	-7								
Nickel subsulfide	12035-72-2								
Thallium selenite	12039-52-0								
Dimethyl terephthalate (DMT)	120-61-6								
Zineb 12122-67	-7								
Triethylamine 121-44	-8								
N,N-Dimethylaniline 121-69	-7								
Malathion 121-75	-5								
Propham 122-42	-9								
1,2-Diphenylhydrazine 122-66	-7								
p-Chlorophenyl methyl sulfide	123-09-1								

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Hydroquinone	123-31-9								
Maleic hydrazide	123-33-1								
Maneb 12427-38	-2								
Dimethylamine 124-40	-3								
Chlordane (technical)	12789-03-6								
Antimony trioxide	1309-64-4								
Thallic oxide	1314-32-5								
Zinc phosphide	1314-84-7								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5								
Tricresol	1319-77-3								
Captan 133-06	-2								
Folpet	133-07-3								
Nickel carbonyl	13463-39-3								
Quinalphos 13593-03	-8								
Phenmedipham 13684-63	-4								
Thiram 137-26	-8								
Propazine 139-40	-2								
Aramite 140-57	-8								
Bidrin 141-66	-2								
Triethylene glycol monobutyl ether	143-22-6								
Sodium cyanide	143-33-9								
Diisopropyl methylphosphonate	1445-75-6								
Endothall 145-73	-3								
Nitrate 14797-55	-8								
Nitrite 14797-65	-0								
Sodium diethyldithiocarbamate	148-18-5								
Merphos 150-50	-5								
Potassium cyanide	151-50-8								
Ethyleneimine	151-56-4								
Napropamide 15299-99	-7								
Carbofuran 1563-66	-2								
Trifluralin 1582-09	-8								

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Alar 1596-84	-5								
Alachlor	15972-60-8								
Prometon 1610-18	-0								
Aldicarb sulfone	1646-88-4								
Ethephon 16672-87	-0								
Methomyl 16752-77	-5								
Bromoxynil 1689-84	-5								
Bromoxynil octanoate	1689-99-2								
Benomyl	17804-35-2								
Isopropyl methyl phosphonic acid	1832-54-8								
Benefin 1861-40	-1								
Chlorothalonil	1897-45-6								
Oryzalin	19044-88-3								
Paraquat 1910-42	-5								
Propachlor	1918-16-7								
Vernam 1929-77	-7								
Nitrapyrin	1929-82-4								
Oxadiazon 19666-30	-9								
Butylate	2008-41-5								
p,p'-Dibromodiphenyl ether	2050-47-7								
Aluminum phosphide	20859-73-8								
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5								
Metribuzin 21087-64	-9								
Fluometuron 2164-17	-2								
Cyanazine	21725-46-2								
Molinate 2212-67	-1								
Fenamiphos	22224-92-6								
Triallate	2303-17-5								
Phosalone 2310-17	-0								
Propargite 2312-35	-8								
Oxamyl 23135-22	-0								
Thiophanate-methyl 23564-05	-8								

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Pronamide 23950-58	-5								
Mepiquat chloride	24307-26-4								
Pentachlorocyclopentadiene 25329-35	-5								
Sodium azide	26628-22-8								
Norflurazon 27314-13	-2								
Thiobencarb 28249-77	-6								
Chlorpyrifos	2921-88-2								
Pirimiphos-methyl 29232-93	-7								
Methyl parathion	298-00-0								
Disulfoton	298-04-4								
Naled 300-76	-5								
Acephate 30560-19	-1								
Pentabromodiphenyl ether	32534-81-9								
Octabromodiphenyl ether	32536-52-0								
Diuron 330-54	-1								
Linuron	330-55-2								
Amitraz 33089-61	-1								
Asulam 3337-71	-1								
Diazomethane	334-88-3								
Isopropalin 33820-53	-0								
Tebuthiuron 34014-18	-1								
Acetochlor 34256-82	-1								
Diflubenzuron 35367-38	-5								
Pentafluoroethane	354-33-6								
Imazalil 35554-44	-0								
Hexabromodiphenyl ether	36483-60-0								
Iprodione 36734-19	-7								
Tetraethyldithiopyrophosphate 3689-24	-5								
Fosetyl-al	39148-24-8								
Danitol 39515-41	-8								
Tetrabromodiphenyl ether	40088-47-9								
Pendimethalin 40487-42	-1								

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Oxyfluorfen 42874-03	-3								
Bayleton 43121-43	-3								
Difenzoquat 43222-48	-6								
Cyanogen 460-19	-5								
Carbonyl sulfide	463-58-1								
Tribromodiphenyl ether	49690-94-0								
4-Aminopyridine 504-24	-5								
Vinclozolin	50471-44-8								
Potassium silver cyanide	506-61-6								
Silver cyanide	506-64-9								
Chlorine cyanide	506-77-4								
t-Butyl chloride	507-20-0								
Metolachlor 51218-45	-2								
Hexazinone 51235-04	-2								
Pydrin 51630-58	-1								
Ethyl carbamate	51-79-6								
Propylene glycol monoethyl ether	52125-53-8								
Cypermethrin 52315-07	-8								
Carboxin	5234-68-4								
Permethrin	52645-53-1								
2-Chloroacetophenone	532-27-4								
Barium cyanide	542-62-1								
Bis(chloromethyl) ether	542-88-1								
Copper cyanide	544-92-3								
Carbosulfan	55285-14-8								
Dimethipin 55290-64	-7								
Nitroguanidine	556-88-7								
Zinc cyanide	557-21-1								
Ethion 563-12	-2								
Tributyltin oxide	56-35-9								
Thallium acetate	563-68-8								
Parathion 56-38-	2								

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Strychnine 57-24-	9								
beta-Propiolactone 57-57-	8								
2,6-Dimethylphenol	576-26-1								
Metalaxyl	57837-19-1								
Tridiphan 58138-08	-2								
Terbacil 5902-51	-2								
Calcium cyanide	592-01-8								
Vinyl bromide	593-60-2								
Fluridone 59756-60	-4								
1,1,2-Trichloropropane 598-77	-6								
d-Limonene 5989-27	-5								
Propiconazole 60207-90	-1								
Dimethoate 60-51-	5								
Furmecyclox	60568-05-0								
technical Hexachlorocyclohexane (t-HCH)	608-73-1								
1,2,4-Tribromobenzene	615-54-3								
Phenylmercuric acetate	62-38-4								
Acifluorfen, sodium	62476-59-9								
Methyl isocyanate	624-83-9								
Dichlorvos	62-73-7								
Sodium fluoroacetate	62-74-8								
Selenourea 630-10	-4								
Ammonium acetate	631-61-8								
Carbaryl 63-25-	2								
Nonabromodiphenyl ether	63936-56-1								
Diethyl sulfate	64-67-5								
Chlorsulfuron 64902-72	-3								
Avermectin B1	65195-55-3								
Thallium carbonate	6533-73-9								
Cyromazine	66215-27-8								
Flutolanil	66332-96-5								
Tralomethrin 66841-25	-6								

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Amdro 67485-29	-4								
Prochloraz 67747-09	-5								
Cyhalothrin/karate 68085-85	-8								
N,N-Dimethylformamide 68-12-	2								
Baythroid 68359-37	-5								
Fluvalinate 69409-94	-5								
Haloxypop-methyl 69806-40	-2								
Hexachlorophene 70-30-	4								
Propanil 709-98	-8								
n-Butanol 71-36-	3								
Fomasafen 72178-02	-0								
Prometryn 7287-19	-6								
Phosmet	732-11-6								
Sethoxydim 74051-80	-2								
Apollo 74115-24	-5								
Ally 74223-64	-6								
Radium 226,228	7440-14-4								
Thallium (I) sulfate	7446-18-6								
Selenium sulfide	7446-34-6								
Mercuric chloride	7487-94-7								
Hydrogen cyanide	74-90-8								
Propyleneimine 75-55-	8								
Propylene oxide	75-56-9								
Cacodylic acid	75-60-5								
Bromotrichloromethane 75-62-	7								
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4								
Trichloroacetic acid	76-03-9								
Hydrogen chloride	7647-01-0								
Glycidaldehyde	765-34-4								
Assure 76578-14	-8								
Phosphoric acid	7664-38-2								
Ammonia 7664-41	-7								

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Paclobutrazol 76738-62	-0								
Glufosinate-ammonium	77182-82-2								
White phosphorus	7723-14-0								
Trichlorocyclopentadiene	77323-84-3								
Lactofen 77501-63	-4								
Aluminum sulfamate	7773-06-0								
Dimethyl sulfate	77-78-1								
Fluorine, soluble fluoride	7782-41-4								
Selenious acid	7783-00-8								
Arsine	7784-42-1								
Thallium chloride	7791-12-0								
Tetraethyl lead	78-00-2								
Phosphine 7803-51	-2								
Merphos oxide	78-48-8								
Savey 78587-05	-0								
Acrylamide 79-06-	1								
Acrylic acid	79-10-7								
Methyl chlorocarbonate	79-22-1								
Harmony 79277-27	-3								
2-Nitropropane 79-46-	9								
Creosote 8001-58	-9								
Bisphenol A	80-05-7								
Coke oven emissions	8007-45-2								
Demeton 8065-48	-3								
1,1,1,2-Tetrafluoroethane 811-97	-2								
Imazaquin 81335-37	-7								
Pursuit 81335-77	-5								
Warfarin 81-81-	2								
Triasulfuron 82097-50	-5								
1,6-Hexamethylene diisocyanate	822-06-0								
Isoxaben 82558-50	-7								
Bipenthrin	82657-04-3								

TABLE A-4e. Air Force ERP Groundwater Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Groundwater Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Londax 83055-99	-6								
Ametryn	834-12-8								
Rotenone 83-79-	4								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0								
Diquat 85-00-	7								
Phthalic anhydride	85-44-9								
Nustar 85509-19	-9								
Hexabromobenzene 87-82-	1								
Terbutryn	886-50-0								
Systhane	88671-89-0								
ortho-Anisidine 90-04-	0								
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9								
Chlorimuron-ethyl 90982-32	-4								
p-Chlorophenyl methyl sulfoxide	934-73-6								
Fonofos 944-22	-9								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5								
Methidathion	950-37-8								
3,4-Dimethylphenol 95-65-	8								
Diphenamid 957-51	-7								
2,4-Diaminotoluene	95-80-7								
1,2,4,5-Tetrachlorobenzene 95-94-	3								
Tetrachlorovinphos 961-11	-5								
Methyl acrylate	96-33-3								
Ethylene thiourea	96-45-7								
Furfural 98-01-	1								
Benzotrithloride 98-07-	7								
p-Chlorophenyl methyl sulfone	98-57-7								

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TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Trichloroethylene 79-01-	6	99	1141	126567	5624	115683	3219	1809	232
Ethylbenzene 100-41	-4	99	1059	37092	7192	27159	2368	259	114
Tetrachloroethylene 127-18	-4	85	846	49859	3733	43377	2081	576	92
cis-1,2-Dichloroethylene 156-59	-2	86	933	91436	3462	84061	1896	1741	276
Dichloromethane 75-09-	2	102	1196	38619	11818	24092	1315	597	797
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	23	98	2224	55	930	1238	1	0
Dichlorodifluoromethane	75-71-8	65	293	7534	338	5998	1045	125	28
Trichlorofluoromethane	75-69-4	63	353	9856	1221	7542	944	114	35
1,1-Dichloroethane 75-34-	3	77	528	26976	735	25174	793	248	26
Carbon disulfide	75-15-0	64	539	9796	1179	7482	726	146	263
Chlorobenzene 108-90	-7	75	551	31976	6130	24315	689	512	330
Styrene	100-42-5	67	308	6067	558	4652	679	132	46
n-Heptane 142-82	-5	5	19	638	0	5	633	0	0
Carbon tetrachloride	56-23-5	66	329	14195	540	12889	619	125	22
1,2-Dichlorobenzene 95-50-	1	74	473	16996	1071	14952	592	238	143
trans-1,2-Dichloroethylene 156-60	-5	74	606	34809	945	32883	579	351	51
1,2-Dichloroethane 107-06	-2	76	546	17299	564	15973	579	147	36
1,4-Dichlorobenzene 106-46	-7	81	516	17803	1362	15454	566	244	177
1,3-Dichlorobenzene	541-73-1	70	388	10787	596	9324	565	221	81
1,1,2,2-Tetrachloroethane	79-34-5	52	196	6782	380	5766	457	143	36
Ethyl chloride	75-00-3	67	327	9386	363	8422	435	142	24
Bromomethane	74-83-9	59	370	6840	658	5606	410	143	23
1,1,2-Trichloroethane	79-00-5	62	305	9703	460	8694	401	121	27
1,1,1-Trichloroethane	71-55-6	69	355	9644	521	8637	397	83	6
1,4-Dioxane 123-91	-1	13	51	1837	58	1376	393	2	8
1,2,4-Trichlorobenzene	120-82-1	68	353	7296	772	5828	383	209	104
Methyl tert-butyl ether	1634-04-4	63	436	13791	684	12361	374	347	25
Benzyl chloride	100-44-7	3	4	338	0	0	338	0	0
Hexachlorobutadiene	87-68-3	46	202	6258	377	5277	334	204	66

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
1,2-Dichloropropane	78-87-5	57	255	8358	319	7584	326	107	22
Bromodichloromethane	75-27-4	65	369	7027	288	6216	322	178	23
Bromoform	75-25-2	52	248	6258	549	5158	308	186	57
Dibromochloromethane	124-48-1	59	283	6241	343	5403	308	164	23
Vinyl acetate	108-05-4	15	31	390	15	65	308	2	0
Naphthalene 91-20-	3	98	1064	36497	10334	24821	107	551	684
Cumene 98-82-	8	85	599	20364	3059	16945	104	194	62
Bromochloromethane	74-97-5	24	78	4762	370	4190	70	109	23
Acetophenone 98-86-	2	12	34	101	25	67	6	0	3
Acetaldehyde 75-07-	0	2	3	56	0	51	5	0	0
Fluoranthene	206-44-0	82	804	19046	13969	2891	1	315	870
Pyrene	129-00-0	80	788	17995	13293	2584	1	271	846
Phenanthrene	85-01-8	88	799	16919	11441	3617	1	287	573
Anthracene	120-12-7	73	548	9520	6505	1980	1	174	860
Acenaphthene	83-32-9	75	513	7992	4457	2777	1	175	582
Methanol 67-56-	1	1	1	14	0	13	1	0	0
Allyl chloride	107-05-1			1	0	0	1	0	0
Manganese 7439-96	-5	91	1292	79631	24671	45710	0	5511	3739
Arsenic, inorganic	7440-38-2	97	1448	66457	35929	24614	0	2179	3735
Nickel 7440-02	-0	86	1210	57039	26844	25259	0	1505	3431
Copper 7440-50	-8	88	1208	50289	29511	15254	0	1880	3644
Cadmium 7440-43	-9	89	1191	33531	21455	8527	0	878	2671
Beryllium and compounds	7440-41-7	82	948	32338	22936	6267	0	571	2564
Selenium and compounds	7782-49-2	91	1097	29852	12918	14537	0	989	1408
Mercury, elemental	7439-97-6	85	981	25238	15513	6924	0	687	2114
1,1,1,2-Tetrachloroethane 630-20	-6	20	83	21450	259	16661	0	4444	86
Antimony	7440-36-0	79	816	17502	10026	5518	0	969	989
Chrysene	218-01-9	79	733	16550	12649	1867	0	235	1799
Benzo [a] pyrene	50-32-8	79	703	16200	12519	1789	0	206	1686
Benzo(b)fluoranthene	205-99-2	77	698	16074	12327	1719	0	254	1774
Benzo(a)anthracene	56-55-3	79	693	15271	11639	1795	0	214	1623
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	82	851	14775	6056	7233	0	418	1068

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Silver	7440-22-4	84	816	14338	7198	5106	0	715	319
Molybdenum	7439-98-7	48	465	14189	6094	6594	0	756	745
Indeno[1,2,3-cd]pyrene	193-39-5	78	604	12794	9663	1560	0	226	1345
Benzo(k)fluoranthene	207-08-9	70	583	12391	9258	1505	0	215	1413
Benzo[g,h,i]perylene	191-24-2	77	610	12001	8937	1537	0	206	1321
Fluorene	86-73-7	80	558	8658	4481	3372	0	195	610
Dibenzo(a,h)anthracene	53-70-3	65	470	7527	5346	1314	0	159	708
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	58	372	7051	5239	464	0	196	1152
o-Chlorotoluene	95-49-8	33	121	4697	281	4287	0	105	24
Acenaphthylene	208-96-8	62	330	4508	2363	1713	0	120	312
o-Dinitrobenzene 528-29	-0	5	46	4493	1908	2404	0	125	56
1,2-Dibromo-3-chloropropane	96-12-8	31	102	4477	264	4076	0	105	32
1,2,3-Trichloropropane	96-18-4	34	96	4453	255	4072	0	104	22
Dibutyl phthalate	84-74-2	66	420	4297	1533	2313	0	193	258
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	56	288	4296	2698	452	0	49	1097
Dieldrin 60-57-	1	49	259	4043	2426	949	0	209	459
Dibenzofuran	132-64-9	54	267	3710	1681	1558	0	123	348
Cyanide, free	57-12-5	33	215	2765	1109	1222	0	180	254
Diethyl phthalate	84-66-2	63	316	2611	416	1998	0	115	82
Arochlor 1254	11097-69-1	41	162	2348	1883	47	0	37	381
4-Methylphenol	106-44-5	45	189	2024	195	1557	0	114	158
Butyl benzyl phthalate	85-68-7	54	249	2002	479	1289	0	112	122
2,4-Dimethylphenol	105-67-9	46	161	1890	128	1615	0	106	41
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	23	73	1822	1651	62	0	2	107
Chromium (VI)	18540-29-9	16	103	1783	676	1051	0	22	34
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	22	72	1763	1594	63	0	4	102
Pentachlorophenol	87-86-5	36	116	1739	123	1480	0	95	41
2-Methylphenol	95-48-7	40	138	1669	142	1380	0	106	41
Heptachlor epoxide	1024-57-3	44	209	1624	794	447	0	135	248
p-Nitrophenol 100-02	-7	23	61	1538	52	1160	0	202	124
N-Nitrosodiphenylamine	86-30-6	37	99	1461	224	1086	0	94	57
2,4-Dinitrotoluene	121-14-2	30	97	1397	262	988	0	96	51

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
2-Chlorophenol 95-57-	8	23	66	1356	30	1195	0	94	37
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	39	177	1296	488	490	0	140	178
Aldrin	309-00-2	47	181	1294	598	355	0	127	214
beta-Hexachlorocyclohexane	319-85-7	43	162	1226	385	499	0	160	182
Heptachlor	76-44-8	44	184	1219	509	372	0	141	197
Polychlorinated biphenyls	1336-36-3	7	10	1210	1197	8	0	0	5
2,6-Dinitrotoluene 606-20	-2	24	70	1204	72	1002	0	92	38
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	44	155	1200	417	422	0	161	200
beta-Chloronaphthalene 91-58-	7	19	46	1200	77	948	0	92	83
2,4-Dichlorophenol 120-83	-2	26	73	1197	36	1033	0	92	36
p-Chloroaniline 106-47	-8	21	62	1177	70	979	0	93	35
gamma-Hexachlorocyclohexane	58-89-9	42	166	1163	330	495	0	187	151
Endrin	72-20-8	37	152	1163	538	273	0	122	230
Nitrobenzene 98-95-	3	26	56	1159	40	990	0	94	35
N-Nitroso-di-N-propylamine 621-64	-7	29	70	1157	51	976	0	93	37
Bis(chloroethyl)ether 111-44	-4	20	50	1155	36	986	0	92	41
Isophorone 78-59-	1	26	63	1155	59	964	0	96	36
Hexachlorobenzene 118-74	-1	18	51	1150	80	934	0	94	42
Methoxychlor	72-43-5	39	165	1134	563	209	0	116	246
Hexachloroethane 67-72-	1	17	44	1132	62	941	0	92	37
2,4-Dinitrophenol 51-28-	5	16	46	1118	25	966	0	92	35
2,4,6-Trichlorophenol 88-06-	2	21	49	1115	34	951	0	92	38
2,4,5-Trichlorophenol 95-95-	4	19	43	1111	31	951	0	92	37
Bis(2-chloroisopropyl) ether	108-60-1	12	37	1104	26	948	0	92	38
Bis(2-chloroethoxy)methane 111-91	-1	15	40	1096	29	940	0	92	35
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	8	43	786	258	500	0	10	18
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	27	54	540	423	59	0	5	53
N-Nitrosodimethylamine 62-75-	9	6	28	397	3	388	0	5	1
Arochlor 1016	12674-11-2	18	39	373	156	41	0	27	149
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	6	22	330	125	205	0	0	0
Toxaphene 8001-35	-2	9	17	276	38	38	0	101	99
2,4,6-Trinitrotoluene 118-96	-7	6	28	270	225	35	0	2	8

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	10	37	187	150	4	0	6 27	
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	18	52	185	110	39	0	11 25	
Caprolactam 105-60	-2	8	23	172	28	138	0	6 0	
Vanadium pentoxide	1314-62-1	2	8	169	15	154	0	0 0	
Uranium, natural	7440-61-1	2	8	169	15	154	0	0 0	
Pentachloronitrobenzene 82-68-	8	1	1	138	58	3	0	10 67	
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	14	24	132	50	17	0	23 42	
2,4,5-Trichlorophenoxyacetic acid	93-76-5	13	41	127	31	70	0	1 25	
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	34	121	66	31	0	5 19	
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	32	117	39	63	0	7 8	
Dalapon (sodium salt)	75-99-0	13	20	89	33	37	0	8 11	
1,1-Biphenyl 92-52-	4	8	14	75	43	32	0	0 0	
Dicamba 1918-00	-9	13	25	57	31	22	0	2 2	
3-Methylphenol 108-39	-4	5	16	52	8	44	0	0 0	
Dinoseb 88-85-	7	10	13	48	36	12	0	0 0	
Formaldehyde 50-00-	0	1	1	47	0	47	0	0 0	
Benzaldehyde 100-52	-7	6	9	44	39	2	0	0 3	
Chloramben 133-90	-4	1	13	43	13	30	0	0 0	
Ethyl acetate	141-78-6	2	8	43	26	17	0	0 0	
Ethylene glycol	107-21-1	2	9	34	25	8	0	1 0	
Pyridine 110-86	-1	6	7	27	23	3	0	0 1	
1,3,5-Trinitrobenzene 99-35-	4	4	5	23	11	10	0	0 2	
Acrylonitrile 107-13	-1	4	10	19	3	15	0	0 1	
Hydrazine/hydrazine sulfate	302-01-2	1	3	17	7	8	0	0 2	
Chlorobenzilate 510-15	-6	2	4	14	6	8	0	0 0	
2,3,4,6-Tetrachlorophenol 58-90-	2	5	7	13	1	12	0	0 0	
Aniline 62-	53-3	6	6	12	4	6	0	0 2	
Picloram 1918-02	-1	1	9	10	3	6	0	0 1	
Diphenylamine 122-39	-4	2	3	10	0	10	0	0 0	
Chlorine 7782-50	-5	1	1	9	0	0	0	9 0	
Benzidine 92-87-	5	4	4	9	4	2	0	0 3	
Chromium III, insoluble salts	16065-83-1	1	2	7	0	7	0	0 0	

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Atrazine 1912-24	-9	1	1	6	1	3	0	2	0
Dacthal 1861-32	-1	1	4	5	1	4	0	0	0
Dibromodichloromethane 594-18	-3	2	2	5	0	5	0	0	0
Formic acid	64-18-6	2	2	5	0	5	0	0	0
Azobenzene 103-33	-3	3	3	4	1	2	0	0	1
Simazine 122-34	-9			4	4	0	0	0	0
N-Nitrosodiethylamine 55-18-	5	2	3	4	0	4	0	0	0
Methacrylonitrile 126-98	-7	1	2	3	0	3	0	0	0
Propylene glycol	57-55-6			2	2	0	0	0	0
Isobutyl alcohol	78-83-1			2	0	1	0	1	0
N-Nitroso-di-n-butylamine 924-16	-3	1	2	2	0	2	0	0	0
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1	0	1	0	0	0
Cyclohexanone	108-94-1			1	0	1	0	0	0
Asbestos 1332-21	-4			1	1	0	0	0	0
Mirex 2385-85	-5	1	1	1	1	0	0	0	0
Pentachlorobenzene 608-93	-5	1	1	1	1	0	0	0	0
Chlorodifluoromethane 75-45-	6	1	1	1	0	1	0	0	0
N-Nitrosopyrrolidine 930-55	-2	1	1	1	1	0	0	0	0
Captafol 2425-06	-1								
Dodine	2439-10-3								
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7								
Nitric Oxide	10102-43-9								
Thallium nitrate	10102-45-1								
Express 101200-4	8-0								
Chlorpropham 101-21	-3								
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1								
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8								
Methamidophos	10265-92-6								
di(2-ethylhexyl)Adipate 103-23	-1								
Resmethrin 10453-86	-8								
Monchloramine	10599-90-3								
1,4-Dibromobenzene 106-37	-6								
Quinone 106-51	-4								

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
1,2-Epoxybutane	106-88-7								
Epichlorohydrin 106-89	-8								
Ethylene diamine	107-15-3								
Glyphosate	1071-83-6								
Allyl alcohol	107-18-6								
Propargyl alcohol	107-19-7								
Chloromethyl methyl ether	107-30-2								
Propylene glycol monomethyl ether	107-98-2								
Maleic anhydride	108-31-6								
m-Phenylenediamine	108-45-2								
Cyclohexylamine 108-91	-8								
1-Chlorobutane	109-69-3								
2-Methoxyethanol	109-86-4								
Furan 110-00	-9								
2-Ethoxyethanol 110-80	-5								
N-Nitrosodiethanolamine 1116-54	-7								
Adiponitrile 111-69	-3								
Baygon 114-26	-1								
Endosulfan 115-29	-7								
Aldicarb 116-06	-3								
Decabromodiphenyl ether (DBDPE)	1163-19-5								
3,3-Dimethylbenzidine 119-93	-7								
Nickel subsulfide	12035-72-2								
Thallium selenite	12039-52-0								
Dimethyl terephthalate (DMT)	120-61-6								
Zineb 12122-67	-7								
Triethylamine 121-44	-8								
N,N-Dimethylaniline 121-69	-7								
Malathion 121-75	-5								
Propham 122-42	-9								
1,2-Diphenylhydrazine 122-66	-7								
p-Chlorophenyl methyl sulfide	123-09-1								

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Hydroquinone	123-31-9								
Maleic hydrazide	123-33-1								
Maneb 12427-38	-2								
Dimethylamine 124-40	-3								
Chlordane (technical)	12789-03-6								
Antimony trioxide	1309-64-4								
Thallic oxide	1314-32-5								
Zinc phosphide	1314-84-7								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5								
Tricresol	1319-77-3								
Captan 133-06	-2								
Folpet	133-07-3								
Nickel carbonyl	13463-39-3								
Quinalphos 13593-03	-8								
Phenmedipham 13684-63	-4								
Thiram 137-26	-8								
Propazine 139-40	-2								
Aramite 140-57	-8								
Bidrin 141-66	-2								
Triethylene glycol monobutyl ether	143-22-6								
Sodium cyanide	143-33-9								
Diisopropyl methylphosphonate	1445-75-6								
Endothall 145-73	-3								
Nitrate 14797-55	-8								
Nitrite 14797-65	-0								
Sodium diethyldithiocarbamate	148-18-5								
Merphos 150-50	-5								
Potassium cyanide	151-50-8								
Ethyleneimine	151-56-4								
Napropamide 15299-99	-7								
Carbofuran 1563-66	-2								
Trifluralin 1582-09	-8								

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Alar 1596-84	-5								
Alachlor	15972-60-8								
Prometon 1610-18	-0								
Aldicarb sulfone	1646-88-4								
Ethephon 16672-87	-0								
Methomyl 16752-77	-5								
Bromoxynil 1689-84	-5								
Bromoxynil octanoate	1689-99-2								
Benomyl	17804-35-2								
Isopropyl methyl phosphonic acid	1832-54-8								
Benefin 1861-40	-1								
Chlorothalonil	1897-45-6								
Oryzalin	19044-88-3								
Paraquat 1910-42	-5								
Propachlor	1918-16-7								
Vernam 1929-77	-7								
Nitrapyrin	1929-82-4								
Oxadiazon 19666-30	-9								
Butylate	2008-41-5								
p,p'-Dibromodiphenyl ether	2050-47-7								
Aluminum phosphide	20859-73-8								
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5								
Metribuzin 21087-64	-9								
Fluometuron 2164-17	-2								
Cyanazine	21725-46-2								
Molinate 2212-67	-1								
Fenamiphos	22224-92-6								
Triallate	2303-17-5								
Phosalone 2310-17	-0								
Propargite 2312-35	-8								
Oxamyl 23135-22	-0								
Thiophanate-methyl 23564-05	-8								

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Pronamide 23950-58	-5								
Mepiquat chloride	24307-26-4								
Pentachlorocyclopentadiene 25329-35	-5								
Sodium azide	26628-22-8								
Norflurazon 27314-13	-2								
Thiobencarb 28249-77	-6								
Chlorpyrifos	2921-88-2								
Pirimiphos-methyl 29232-93	-7								
Methyl parathion	298-00-0								
Disulfoton	298-04-4								
Naled 300-76	-5								
Acephate 30560-19	-1								
Pentabromodiphenyl ether	32534-81-9								
Octabromodiphenyl ether	32536-52-0								
Diuron 330-54	-1								
Linuron	330-55-2								
Amitraz 33089-61	-1								
Asulam 3337-71	-1								
Diazomethane	334-88-3								
Isopropalin 33820-53	-0								
Tebuthiuron 34014-18	-1								
Acetochlor 34256-82	-1								
Diflubenzuron 35367-38	-5								
Pentafluoroethane	354-33-6								
Imazalil 35554-44	-0								
Hexabromodiphenyl ether	36483-60-0								
Iprodione 36734-19	-7								
Tetraethyldithiopyrophosphate 3689-24	-5								
Fosetyl-al	39148-24-8								
Danitol 39515-41	-8								
Tetrabromodiphenyl ether	40088-47-9								
Pendimethalin 40487-42	-1								

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Oxyfluorfen 42874-03	-3								
Bayleton 43121-43	-3								
Difenzoquat 43222-48	-6								
Cyanogen 460-19	-5								
Carbonyl sulfide	463-58-1								
Tribromodiphenyl ether	49690-94-0								
4-Aminopyridine 504-24	-5								
Vinclozolin	50471-44-8								
Potassium silver cyanide	506-61-6								
Silver cyanide	506-64-9								
Chlorine cyanide	506-77-4								
t-Butyl chloride	507-20-0								
Metolachlor 51218-45	-2								
Hexazinone 51235-04	-2								
Pydrin 51630-58	-1								
Ethyl carbamate	51-79-6								
Propylene glycol monoethyl ether	52125-53-8								
Cypermethrin 52315-07	-8								
Carboxin	5234-68-4								
Permethrin	52645-53-1								
2-Chloroacetophenone	532-27-4								
Barium cyanide	542-62-1								
Bis(chloromethyl) ether	542-88-1								
Copper cyanide	544-92-3								
Carbosulfan	55285-14-8								
Dimethipin 55290-64	-7								
Nitroguanidine	556-88-7								
Zinc cyanide	557-21-1								
Ethion 563-12	-2								
Tributyltin oxide	56-35-9								
Thallium acetate	563-68-8								
Parathion 56-38-	2								

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Strychnine 57-24-	9								
beta-Propiolactone 57-57-	8								
2,6-Dimethylphenol	576-26-1								
Metalaxyl	57837-19-1								
Tridiphan 58138-08	-2								
Terbacil 5902-51	-2								
Calcium cyanide	592-01-8								
Vinyl bromide	593-60-2								
Fluridone 59756-60	-4								
1,1,2-Trichloropropane 598-77	-6								
d-Limonene 5989-27	-5								
Propiconazole 60207-90	-1								
Dimethoate 60-51-	5								
Furmecyclox	60568-05-0								
technical Hexachlorocyclohexane (t-HCH)	608-73-1								
1,2,4-Tribromobenzene	615-54-3								
Phenylmercuric acetate	62-38-4								
Acifluorfen, sodium	62476-59-9								
Methyl isocyanate	624-83-9								
Dichlorvos	62-73-7								
Sodium fluoroacetate	62-74-8								
Selenourea 630-10	-4								
Ammonium acetate	631-61-8								
Carbaryl 63-25-	2								
Nonabromodiphenyl ether	63936-56-1								
Diethyl sulfate	64-67-5								
Chlorsulfuron 64902-72	-3								
Avermectin B1	65195-55-3								
Thallium carbonate	6533-73-9								
Cyromazine	66215-27-8								
Flutolanil	66332-96-5								
Tralomethrin 66841-25	-6								

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Amdro 67485-29	-4								
Prochloraz 67747-09	-5								
Cyhalothrin/karate 68085-85	-8								
N,N-Dimethylformamide 68-12-	2								
Baythroid 68359-37	-5								
Fluvalinate 69409-94	-5								
Haloxypop-methyl 69806-40	-2								
Hexachlorophene 70-30-	4								
Propanil 709-98	-8								
n-Butanol 71-36-	3								
Fomasafen 72178-02	-0								
Prometryn 7287-19	-6								
Phosmet	732-11-6								
Sethoxydim 74051-80	-2								
Apollo 74115-24	-5								
Ally 74223-64	-6								
Radium 226,228	7440-14-4								
Thallium (I) sulfate	7446-18-6								
Selenium sulfide	7446-34-6								
Mercuric chloride	7487-94-7								
Hydrogen cyanide	74-90-8								
Propyleneimine 75-55-	8								
Propylene oxide	75-56-9								
Cacodylic acid	75-60-5								
Bromotrichloromethane 75-62-	7								
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4								
Trichloroacetic acid	76-03-9								
Hydrogen chloride	7647-01-0								
Glycidaldehyde	765-34-4								
Assure 76578-14	-8								
Phosphoric acid	7664-38-2								
Ammonia 7664-41	-7								

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Paclobutrazol 76738-62	-0								
Glufosinate-ammonium	77182-82-2								
White phosphorus	7723-14-0								
Trichlorocyclopentadiene	77323-84-3								
Lactofen 77501-63	-4								
Aluminum sulfamate	7773-06-0								
Dimethyl sulfate	77-78-1								
Fluorine, soluble fluoride	7782-41-4								
Selenious acid	7783-00-8								
Arsine	7784-42-1								
Thallium chloride	7791-12-0								
Tetraethyl lead	78-00-2								
Phosphine 7803-51	-2								
Merphos oxide	78-48-8								
Savey 78587-05	-0								
Acrylamide 79-06-	1								
Acrylic acid	79-10-7								
Methyl chlorocarbonate	79-22-1								
Harmony 79277-27	-3								
2-Nitropropane 79-46-	9								
Creosote 8001-58	-9								
Bisphenol A	80-05-7								
Coke oven emissions	8007-45-2								
Demeton 8065-48	-3								
1,1,1,2-Tetrafluoroethane 811-97	-2								
Imazaquin 81335-37	-7								
Pursuit 81335-77	-5								
Warfarin 81-81-	2								
Triasulfuron 82097-50	-5								
1,6-Hexamethylene diisocyanate	822-06-0								
Isoxaben 82558-50	-7								
Bipenthrin	82657-04-3								

TABLE A-4f. Air Force ERP Soil-Gas Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Soil-Gas Samples in Which They Were Detected) (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Londax 83055-99	-6								
Ametryn	834-12-8								
Rotenone 83-79-	4								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0								
Diquat 85-00-	7								
Phthalic anhydride	85-44-9								
Nustar 85509-19	-9								
Hexabromobenzene 87-82-	1								
Terbutryn	886-50-0								
Systhane	88671-89-0								
ortho-Anisidine 90-04-	0								
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9								
Chlorimuron-ethyl 90982-32	-4								
p-Chlorophenyl methyl sulfoxide	934-73-6								
Fonofos 944-22	-9								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5								
Methidathion	950-37-8								
3,4-Dimethylphenol 95-65-	8								
Diphenamid 957-51	-7								
2,4-Diaminotoluene	95-80-7								
1,2,4,5-Tetrachlorobenzene 95-94-	3								
Tetrachlorovinphos 961-11	-5								
Methyl acrylate	96-33-3								
Ethylene thiourea	96-45-7								
Furfural 98-01-	1								
Benzotrithloride 98-07-	7								
p-Chlorophenyl methyl sulfone	98-57-7								

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TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Manganese 7439-96	-5	91	1292	79631	24671	45710	0	5511	3739
1,1,1,2-Tetrachloroethane 630-20	-6	20	83	21450	259	16661	0	4444	86
Arsenic, inorganic	7440-38-2	97	1448	66457	35929	24614	0	2179	3735
Copper 7440-50	-8	88	1208	50289	29511	15254	0	1880	3644
Trichloroethylene	79-01-6	99	1141	126567	5624	115683	3219	1809	232
cis-1,2-Dichloroethylene	156-59-2	86	933	91436	3462	84061	1896	1741	276
Nickel 7440-02	-0	86	1210	57039	26844	25259	0	1505	3431
Selenium and compounds	7782-49-2	91	1097	29852	12918	14537	0	989	1408
Antimony	7440-36-0	79	816	17502	10026	5518	0	969	989
Cadmium 7440-43	-9	89	1191	33531	21455	8527	0	878	2671
Molybdenum	7439-98-7	48	465	14189	6094	6594	0	756	745
Silver	7440-22-4	84	816	14338	7198	5106	0	715	1319
Mercury, elemental	7439-97-6	85	981	25238	15513	6924	0	687	2114
Dichloromethane 75-09-	2	102	1196	38619	11818	24092	1315	597	797
Tetrachloroethylene	127-18-4	85	846	49859	3733	43377	2081	576	92
Beryllium and compounds	7440-41-7	82	948	32338	22936	6267	0	571	2564
Naphthalene 91-20-	3	98	1064	36497	10334	24821	107	551	684
Chlorobenzene 108-90	-7	75	551	31976	6130	24315	689	512	330
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	82	851	14775	6056	7233	0	418	1068
trans-1,2-Dichloroethylene	156-60-5	74	606	34809	945	32883	579	351	51
Methyl tert-butyl ether	1634-04-4	63	436	13791	684	12361	374	347	25
Fluoranthene	206-44-0	82	804	19046	13969	2891	1	315	1870
Phenanthrene	85-01-8	88	799	16919	11441	3617	1	287	1573
Pyrene	129-00-0	80	788	17995	13293	2584	1	271	1846
Ethylbenzene	100-41-4	99	1059	37092	7192	27159	2368	259	114
Benzo(b)fluoranthene	205-99-2	77	698	16074	12327	1719	0	254	1774
1,1-Dichloroethane	75-34-3	77	528	26976	735	25174	793	248	26
1,4-Dichlorobenzene 106-46	-7	81	516	17803	1362	15454	566	244	177
1,2-Dichlorobenzene 95-50-	1	74	473	16996	1071	14952	592	238	143

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Chrysene	218-01-9	79	733	16550	12649	1867	0	235	1799
Indeno[1,2,3-cd]pyrene	193-39-5	78	604	12794	9663	1560	0	226	1345
1,3-Dichlorobenzene	541-73-1	70	388	10787	596	9324	565	221	81
Benzo(k)fluoranthene	207-08-9	70	583	12391	9258	1505	0	215	1413
Benzo(a)anthracene	56-55-3	79	693	15271	11639	1795	0	214	1623
1,2,4-Trichlorobenzene	120-82-1	68	353	7296	772	5828	383	209	104
Dieldrin 60-57-	1	49	259	4043	2426	949	0	209	459
Benzo [a] pyrene	50-32-8	79	703	16200	12519	1789	0	206	1686
Benzo[g,h,i]perylene	191-24-2	77	610	12001	8937	1537	0	206	1321
Hexachlorobutadiene	87-68-3	46	202	6258	377	5277	334	204	66
p-Nitrophenol 100-02	-7	23	61	1538	52	1160	0	202	124
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	58	372	7051	5239	464	0	196	1152
Fluorene	86-73-7	80	558	8658	4481	3372	0	195	610
Cumene 98-82-	8	85	599	20364	3059	16945	104	194	62
Dibutyl phthalate	84-74-2	66	420	4297	1533	2313	0	193	258
gamma-Hexachlorocyclohexane	58-89-9	42	166	1163	330	495	0	187	151
Bromoform	75-25-2	52	248	6258	549	5158	308	186	57
Cyanide, free	57-12-5	33	215	2765	1109	1222	0	180	254
Bromodichloromethane	75-27-4	65	369	7027	288	6216	322	178	23
Acenaphthene	83-32-9	75	513	7992	4457	2777	1	175	582
Anthracene	120-12-7	73	548	9520	6505	1980	1	174	860
Dibromochloromethane	124-48-1	59	283	6241	343	5403	308	164	23
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	44	155	1200	417	422	0	161	200
beta-Hexachlorocyclohexane	319-85-7	43	162	1226	385	499	0	160	182
Dibenzo(a,h)anthracene	53-70-3	65	470	7527	5346	1314	0	159	708
1,2-Dichloroethane	107-06-2	76	546	17299	564	15973	579	147	36
Carbon disulfide	75-15-0	64	539	9796	1179	7482	726	146	263
Bromomethane	74-83-9	59	370	6840	658	5606	410	143	23
1,1,2,2-Tetrachloroethane	79-34-5	52	196	6782	380	5766	457	143	36
Ethyl chloride	75-00-3	67	327	9386	363	8422	435	142	24
Heptachlor	76-44-8	44	184	1219	509	372	0	141	197
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	39	177	1296	488	490	0	140	178

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Heptachlor epoxide	1024-57-3	44	209	1624	794	447	0	135	248
Styrene	100-42-5	67	308	6067	558	4652	679	132	46
Aldrin	309-00-2	47	181	1294	598	355	0	127	214
Carbon tetrachloride	56-23-5	66	329	14195	540	12889	619	125	22
Dichlorodifluoromethane	75-71-8	65	293	7534	338	5998	1045	125	28
o-Dinitrobenzene 528-29	-0	5	46	4493	1908	2404	0	125	56
Dibenzofuran	132-64-9	54	267	3710	1681	1558	0	123	348
Endrin	72-20-8	37	152	1163	538	273	0	122	230
1,1,1,2-Trichloroethane	79-00-5	62	305	9703	460	8694	401	121	27
Acenaphthylene	208-96-8	62	330	4508	2363	1713	0	120	312
Methoxychlor	72-43-5	39	165	1134	563	209	0	116	246
Diethyl phthalate	84-66-2	63	316	2611	416	1998	0	115	82
Trichlorofluoromethane	75-69-4	63	353	9856	1221	7542	944	114	35
4-Methylphenol	106-44-5	45	189	2024	195	1557	0	114	158
Butyl benzyl phthalate	85-68-7	54	249	2002	479	1289	0	112	122
Bromochloromethane	74-97-5	24	78	4762	370	4190	70	109	23
1,2-Dichloropropane	78-87-5	57	255	8358	319	7584	326	107	22
2,4-Dimethylphenol	105-67-9	46	161	1890	128	1615	0	106	41
2-Methylphenol	95-48-7	40	138	1669	142	1380	0	106	41
o-Chlorotoluene	95-49-8	33	121	4697	281	4287	0	105	24
1,2-Dibromo-3-chloropropane	96-12-8	31	102	4477	264	4076	0	105	32
1,2,3-Trichloropropane	96-18-4	34	96	4453	255	4072	0	104	22
Toxaphene 8001-35	-2	9	17	276	38	38	0	101	99
2,4-Dinitrotoluene	121-14-2	30	97	1397	262	988	0	96	51
Isophorone 78-59-	1	26	63	1155	59	964	0	96	36
Pentachlorophenol	87-86-5	36	116	1739	123	1480	0	95	41
N-Nitrosodiphenylamine	86-30-6	37	99	1461	224	1086	0	94	57
2-Chlorophenol 95-57-	8	23	66	1356	30	1195	0	94	37
Nitrobenzene 98-95-	3	26	56	1159	40	990	0	94	35
Hexachlorobenzene 118-74	-1	18	51	1150	80	934	0	94	42
p-Chloroaniline 106-47	-8	21	62	1177	70	979	0	93	35
N-Nitroso-di-N-propylamine 621-64	-7	29	70	1157	51	976	0	93	37

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
2,6-Dinitrotoluene 606-20	-2	24	70	1204	72	1002	0	92	38
beta-Chloronaphthalene 91-58-	7	19	46	1200	77	948	0	92	83
2,4-Dichlorophenol 120-83	-2	26	73	1197	36	1033	0	92	36
Bis(chloroethyl)ether 111-44	-4	20	50	1155	36	986	0	92	41
Hexachloroethane 67-72-	1	17	44	1132	62	941	0	92	37
2,4-Dinitrophenol 51-28-	5	16	46	1118	25	966	0	92	35
2,4,6-Trichlorophenol 88-06-	2	21	49	1115	34	951	0	92	38
2,4,5-Trichlorophenol 95-95-	4	19	43	1111	31	951	0	92	37
Bis(2-chloroisopropyl) ether	108-60-1	12	37	1104	26	948	0	92	38
Bis(2-chloroethoxy)methane 111-91	-1	15	40	1096	29	940	0	92	35
1,1,1-Trichloroethane	71-55-6	69	355	9644	521	8637	397	83	6
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	56	288	4296	2698	452	0	49	1097
Arochlor 1254	11097-69-1	41	162	2348	1883	47	0	37	381
Arochlor 1016	12674-11-2	18	39	373	156	41	0	27	149
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	14	24	132	50	17	0	23	42
Chromium (VI)	18540-29-9	16	103	1783	676	1051	0	22	34
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	18	52	185	110	39	0	11	25
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	8	43	786	258	500	0	10	18
Pentachloronitrobenzene 82-68-	8	1	1	138	58	3	0	10	67
Chlorine	7782-50-5	1	1	90	0	0	0	9	0
Dalapon (sodium salt)	75-99-0	13	20	89	33	37	0	8	11
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	32	117	39	63	0	7	8
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	10	37	187	150	4	0	6	27
Caprolactam 105-60	-2	8	23	172	28	138	0	6	0
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	27	54	540	423	59	0	5	53
N-Nitrosodimethylamine	62-75-9	6	28	397	3	388	0	5	1
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	34	121	66	31	0	5	19
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	22	72	1763	1594	63	0	4	102
1,4-Dioxane	123-91-1	13	51	1837	58	1376	393	2	8
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	23	73	1822	1651	62	0	2	107
Vinyl acetate	108-05-4	15	31	390	15	65	308	2	0
2,4,6-Trinitrotoluene 118-96	-7	6	28	270	225	35	0	2	8

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Dicamba 1918-00	-9	13	25	57	31	22	0	2	2
Atrazine	1912-24-9	1	1	6	1	3	0	2	0
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	23	98	2224	55	930	1238	1	0
2,4,5-Trichlorophenoxyacetic acid	93-76-5	13	41	127	31	70	0	1	25
Ethylene glycol	107-21-1	2	9	34	25	8	0	1	0
Isobutyl alcohol	78-83-1			2	0	1	0	1	0
Polychlorinated biphenyls	1336-36-3	7	10	1210	1197	8	0	0	5
n-Heptane 142-82	-5	5	19	638	0	5	633	0	0
Benzyl chloride	100-44-7	3	4	338	0	0	338	0	0
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	6	22	330	125	205	0	0	0
Vanadium pentoxide	1314-62-1	2	8	169	15	154	0	0	0
Uranium, natural	7440-61-1	2	8	169	15	154	0	0	0
Acetophenone 98-86-	2	12	34	101	25	67	6	0	3
1,1-Biphenyl 92-52-	4	8	14	75	43	32	0	0	0
Acetaldehyde	75-07-0	2	3	56	0	51	5	0	0
3-Methylphenol	108-39-4	5	16	52	8	44	0	0	0
Dinoseb 88-85-	7	10	13	48	36	12	0	0	0
Formaldehyde	50-00-0	1	1	47	0	47	0	0	0
Benzaldehyde 100-52	-7	6	9	44	39	2	0	0	3
Chloramben 133-90	-4	1	13	43	13	30	0	0	0
Ethyl acetate	141-78-6	2	8	43	26	17	0	0	0
Pyridine 110-86	-1	6	7	27	23	3	0	0	1
1,3,5-Trinitrobenzene 99-35-	4	4	5	23	11	10	0	0	2
Acrylonitrile	107-13-1	4	10	19	3	15	0	0	1
Hydrazine/hydrazine sulfate	302-01-2	1	3	17	7	8	0	0	2
Chlorobenzilate	510-15-6	2	4	14	6	8	0	0	0
Methanol	67-56-1	1	1	14	0	13	1	0	0
2,3,4,6-Tetrachlorophenol	58-90-2	5	7	13	1	12	0	0	0
Aniline	62-53-3	6	6	12	4	6	0	0	2
Picloram	1918-02-1	1	9	10	3	6	0	0	1
Diphenylamine	122-39-4	2	3	10	0	10	0	0	0
Benzidine	92-87-5	4	4	9	4	2	0	0	3

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Chromium III, insoluble salts	16065-83-1	1	2	7	0	7	0	0	0
Dacthal	1861-32-1	1	4	5	1	4	0	0	0
Dibromodichloromethane	594-18-3	2	2	5	0	5	0	0	0
Formic acid	64-18-6	2	2	5	0	5	0	0	0
Azobenzene	103-33-3	3	3	4	1	2	0	0	1
Simazine	122-34-9			4	4	0	0	0	0
N-Nitrosodiethylamine	55-18-5	2	3	4	0	4	0	0	0
Methacrylonitrile	126-98-7	1	2	3	0	3	0	0	0
Propylene glycol	57-55-6			2	2	0	0	0	0
N-Nitroso-di-n-butylamine	924-16-3	1	2	2	0	2	0	0	0
N-Nitroso-N-methylethylamine	10595-95-6	1	1	1	0	1	0	0	0
Allyl chloride	107-05-1			1	0	0	1	0	0
Cyclohexanone	108-94-1			1	0	1	0	0	0
Asbestos	1332-21-4			1	1	0	0	0	0
Mirex	2385-85-5	1	1	1	1	0	0	0	0
Pentachlorobenzene	608-93-5	1	1	1	1	0	0	0	0
Chlorodifluoromethane	75-45-6	1	1	1	0	1	0	0	0
N-Nitrosopyrrolidine	930-55-2	1	1	1	1	0	0	0	0
Captafol 2425-06	-1								
Dodine	2439-10-3								
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7								
Nitric Oxide	10102-43-9								
Thallium nitrate	10102-45-1								
Express 101200-4	8-0								
Chlorpropham 101-21	-3								
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1								
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8								
Methamidophos	10265-92-6								
di(2-ethylhexyl)Adipate 103-23	-1								
Resmethrin 10453-86	-8								
Monchloramine	10599-90-3								
1,4-Dibromobenzene 106-37	-6								
Quinone 106-51	-4								

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
1,2-Epoxybutane	106-88-7								
Epichlorohydrin 106-89	-8								
Ethylene diamine	107-15-3								
Glyphosate	1071-83-6								
Allyl alcohol	107-18-6								
Propargyl alcohol	107-19-7								
Chloromethyl methyl ether	107-30-2								
Propylene glycol monomethyl ether	107-98-2								
Maleic anhydride	108-31-6								
m-Phenylenediamine	108-45-2								
Cyclohexylamine 108-91	-8								
1-Chlorobutane	109-69-3								
2-Methoxyethanol	109-86-4								
Furan 110-00	-9								
2-Ethoxyethanol 110-80	-5								
N-Nitrosodiethanolamine 1116-54	-7								
Adiponitrile 111-69	-3								
Baygon 114-26	-1								
Endosulfan 115-29	-7								
Aldicarb 116-06	-3								
Decabromodiphenyl ether (DBDPE)	1163-19-5								
3,3-Dimethylbenzidine 119-93	-7								
Nickel subsulfide	12035-72-2								
Thallium selenite	12039-52-0								
Dimethyl terephthalate (DMT)	120-61-6								
Zineb 12122-67	-7								
Triethylamine 121-44	-8								
N,N-Dimethylaniline 121-69	-7								
Malathion 121-75	-5								
Propham 122-42	-9								
1,2-Diphenylhydrazine 122-66	-7								
p-Chlorophenyl methyl sulfide	123-09-1								

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Hydroquinone	123-31-9								
Maleic hydrazide	123-33-1								
Maneb 12427-38	-2								
Dimethylamine 124-40	-3								
Chlordane (technical)	12789-03-6								
Antimony trioxide	1309-64-4								
Thallic oxide	1314-32-5								
Zinc phosphide	1314-84-7								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5								
Tricresol	1319-77-3								
Captan 133-06	-2								
Folpet	133-07-3								
Nickel carbonyl	13463-39-3								
Quinalphos 13593-03	-8								
Phenmedipham 13684-63	-4								
Thiram 137-26	-8								
Propazine 139-40	-2								
Aramite 140-57	-8								
Bidrin 141-66	-2								
Triethylene glycol monobutyl ether	143-22-6								
Sodium cyanide	143-33-9								
Diisopropyl methylphosphonate	1445-75-6								
Endothall 145-73	-3								
Nitrate 14797-55	-8								
Nitrite 14797-65	-0								
Sodium diethyldithiocarbamate	148-18-5								
Merphos 150-50	-5								
Potassium cyanide	151-50-8								
Ethyleneimine	151-56-4								
Napropamide 15299-99	-7								
Carbofuran 1563-66	-2								
Trifluralin 1582-09	-8								

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Alar 1596-84	-5								
Alachlor	15972-60-8								
Prometon 1610-18	-0								
Aldicarb sulfone	1646-88-4								
Ethephon 16672-87	-0								
Methomyl 16752-77	-5								
Bromoxynil 1689-84	-5								
Bromoxynil octanoate	1689-99-2								
Benomyl	17804-35-2								
Isopropyl methyl phosphonic acid	1832-54-8								
Benefin 1861-40	-1								
Chlorothalonil	1897-45-6								
Oryzalin	19044-88-3								
Paraquat 1910-42	-5								
Propachlor	1918-16-7								
Vernam 1929-77	-7								
Nitrapyrin	1929-82-4								
Oxadiazon 19666-30	-9								
Butylate	2008-41-5								
p,p'-Dibromodiphenyl ether	2050-47-7								
Aluminum phosphide	20859-73-8								
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5								
Metribuzin 21087-64	-9								
Fluometuron 2164-17	-2								
Cyanazine	21725-46-2								
Molinate 2212-67	-1								
Fenamiphos	22224-92-6								
Triallate	2303-17-5								
Phosolone 2310-17	-0								
Propargite 2312-35	-8								
Oxamyl 23135-22	-0								
Thiophanate-methyl 23564-05	-8								

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Pronamide 23950-58	-5								
Mepiquat chloride	24307-26-4								
Pentachlorocyclopentadiene 25329-35	-5								
Sodium azide	26628-22-8								
Norflurazon 27314-13	-2								
Thiobencarb 28249-77	-6								
Chlorpyrifos	2921-88-2								
Pirimiphos-methyl 29232-93	-7								
Methyl parathion	298-00-0								
Disulfoton	298-04-4								
Naled 300-76	-5								
Acephate 30560-19	-1								
Pentabromodiphenyl ether	32534-81-9								
Octabromodiphenyl ether	32536-52-0								
Diuron 330-54	-1								
Linuron	330-55-2								
Amitraz 33089-61	-1								
Asulam 3337-71	-1								
Diazomethane	334-88-3								
Isopropalin 33820-53	-0								
Tebuthiuron 34014-18	-1								
Acetochlor 34256-82	-1								
Diflubenzuron 35367-38	-5								
Pentafluoroethane	354-33-6								
Imazalil 35554-44	-0								
Hexabromodiphenyl ether	36483-60-0								
Iprodione 36734-19	-7								
Tetraethyldithiopyrophosphate 3689-24	-5								
Fosetyl-al	39148-24-8								
Danitol 39515-41	-8								
Tetrabromodiphenyl ether	40088-47-9								
Pendimethalin 40487-42	-1								

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Oxyfluorfen 42874-03	-3								
Bayleton 43121-43	-3								
Difenzoquat 43222-48	-6								
Cyanogen 460-19	-5								
Carbonyl sulfide	463-58-1								
Tribromodiphenyl ether	49690-94-0								
4-Aminopyridine 504-24	-5								
Vinclozolin	50471-44-8								
Potassium silver cyanide	506-61-6								
Silver cyanide	506-64-9								
Chlorine cyanide	506-77-4								
t-Butyl chloride	507-20-0								
Metolachlor 51218-45	-2								
Hexazinone 51235-04	-2								
Pydrin 51630-58	-1								
Ethyl carbamate	51-79-6								
Propylene glycol monoethyl ether	52125-53-8								
Cypermethrin 52315-07	-8								
Carboxin	5234-68-4								
Permethrin	52645-53-1								
2-Chloroacetophenone	532-27-4								
Barium cyanide	542-62-1								
Bis(chloromethyl) ether	542-88-1								
Copper cyanide	544-92-3								
Carbosulfan	55285-14-8								
Dimethipin 55290-64	-7								
Nitroguanidine	556-88-7								
Zinc cyanide	557-21-1								
Ethion 563-12	-2								
Tributyltin oxide	56-35-9								
Thallium acetate	563-68-8								
Parathion 56-38-	2								

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Strychnine 57-24-	9								
beta-Propiolactone 57-57-	8								
2,6-Dimethylphenol	576-26-1								
Metalaxyl	57837-19-1								
Tridiphan 58138-08	-2								
Terbacil 5902-51	-2								
Calcium cyanide	592-01-8								
Vinyl bromide	593-60-2								
Fluridone 59756-60	-4								
1,1,2-Trichloropropane 598-77	-6								
d-Limonene 5989-27	-5								
Propiconazole 60207-90	-1								
Dimethoate 60-51-	5								
Furmecycloz	60568-05-0								
technical Hexachlorocyclohexane (t-HCH)	608-73-1								
1,2,4-Tribromobenzene	615-54-3								
Phenylmercuric acetate	62-38-4								
Acifluorfen, sodium	62476-59-9								
Methyl isocyanate	624-83-9								
Dichlorvos	62-73-7								
Sodium fluoroacetate	62-74-8								
Selenourea 630-10	-4								
Ammonium acetate	631-61-8								
Carbaryl 63-25-	2								
Nonabromodiphenyl ether	63936-56-1								
Diethyl sulfate	64-67-5								
Chlorsulfuron 64902-72	-3								
Avermectin B1	65195-55-3								
Thallium carbonate	6533-73-9								
Cyromazine	66215-27-8								
Flutolanil	66332-96-5								
Tralomethrin 66841-25	-6								

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Amdro 67485-29	-4								
Prochloraz 67747-09	-5								
Cyhalothrin/karate 68085-85	-8								
N,N-Dimethylformamide 68-12-	2								
Baythroid 68359-37	-5								
Fluvalinate 69409-94	-5								
Haloxypop-methyl 69806-40	-2								
Hexachlorophene 70-30-	4								
Propanil 709-98	-8								
n-Butanol 71-36-	3								
Fomasafen 72178-02	-0								
Prometryn 7287-19	-6								
Phosmet	732-11-6								
Sethoxydim 74051-80	-2								
Apollo 74115-24	-5								
Ally 74223-64	-6								
Radium 226,228	7440-14-4								
Thallium (I) sulfate	7446-18-6								
Selenium sulfide	7446-34-6								
Mercuric chloride	7487-94-7								
Hydrogen cyanide	74-90-8								
Propyleneimine 75-55-	8								
Propylene oxide	75-56-9								
Cacodylic acid	75-60-5								
Bromotrichloromethane 75-62-	7								
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4								
Trichloroacetic acid	76-03-9								
Hydrogen chloride	7647-01-0								
Glycidaldehyde	765-34-4								
Assure 76578-14	-8								
Phosphoric acid	7664-38-2								
Ammonia 7664-41	-7								

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Paclobutrazol 76738-62	-0								
Glufosinate-ammonium	77182-82-2								
White phosphorus	7723-14-0								
Trichlorocyclopentadiene	77323-84-3								
Lactofen 77501-63	-4								
Aluminum sulfamate	7773-06-0								
Dimethyl sulfate	77-78-1								
Fluorine, soluble fluoride	7782-41-4								
Selenious acid	7783-00-8								
Arsine	7784-42-1								
Thallium chloride	7791-12-0								
Tetraethyl lead	78-00-2								
Phosphine 7803-51	-2								
Merphos oxide	78-48-8								
Savey 78587-05	-0								
Acrylamide 79-06-	1								
Acrylic acid	79-10-7								
Methyl chlorocarbonate	79-22-1								
Harmony 79277-27	-3								
2-Nitropropane 79-46-	9								
Creosote 8001-58	-9								
Bisphenol A	80-05-7								
Coke oven emissions	8007-45-2								
Demeton 8065-48	-3								
1,1,1,2-Tetrafluoroethane 811-97	-2								
Imazaquin 81335-37	-7								
Pursuit 81335-77	-5								
Warfarin 81-81-	2								
Triasulfuron 82097-50	-5								
1,6-Hexamethylene diisocyanate	822-06-0								
Isoxaben 82558-50	-7								
Bipenthrin	82657-04-3								

TABLE A-4g. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Londax 83055-99	-6								
Ametryn	834-12-8								
Rotenone 83-79-	4								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0								
Diquat 85-00-	7								
Phthalic anhydride	85-44-9								
Nustar 85509-19	-9								
Hexabromobenzene 87-82-	1								
Terbutryn	886-50-0								
Systhane	88671-89-0								
ortho-Anisidine 90-04-	0								
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9								
Chlorimuron-ethyl 90982-32	-4								
p-Chlorophenyl methyl sulfoxide	934-73-6								
Fonofos 944-22	-9								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5								
Methidathion	950-37-8								
3,4-Dimethylphenol 95-65-	8								
Diphenamid 957-51	-7								
2,4-Diaminotoluene	95-80-7								
1,2,4,5-Tetrachlorobenzene 95-94-	3								
Tetrachlorovinphos 961-11	-5								
Methyl acrylate	96-33-3								
Ethylene thiourea	96-45-7								
Furfural 98-01-	1								
Benzotrithloride 98-07-	7								
p-Chlorophenyl methyl sulfone	98-57-7								

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TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Manganese 7439-96	-5	91	1292	79631	24671	45710	0	5511	3739
Arsenic, inorganic	7440-38-2	97	1448	66457	35929	24614	0	2179	3735
Copper 7440-50	-8	88	1208	50289	29511	15254	0	1880	3644
Nickel 7440-02	-0	86	1210	57039	26844	25259	0	1505	3431
Cadmium 7440-43	-9	89	1191	33531	21455	8527	0	878	2671
Beryllium and compounds	7440-41-7	82	948	32338	22936	6267	0	571	2564
Mercury, elemental	7439-97-6	85	981	25238	15513	6924	0	687	2114
Fluoranthene	206-44-0	82	804	19046	13969	2891	1	315	1870
Pyrene	129-00-0	80	788	17995	13293	2584	1	271	1846
Chrysene	218-01-9	79	733	16550	12649	1867	0	235	1799
Benzo(b)fluoranthene	205-99-2	77	698	16074	12327	1719	0	254	1774
Benzo [a] pyrene	50-32-8	79	703	16200	12519	1789	0	206	1686
Benzo(a)anthracene	56-55-3	79	693	15271	11639	1795	0	214	1623
Phenanthrene	85-01-8	88	799	16919	11441	3617	1	287	1573
Benzo(k)fluoranthene	207-08-9	70	583	12391	9258	1505	0	215	1413
Selenium and compounds	7782-49-2	91	1097	29852	12918	14537	0	989	1408
Indeno[1,2,3-cd]pyrene	193-39-5	78	604	12794	9663	1560	0	226	1345
Benzo[g,h,i]perylene	191-24-2	77	610	12001	8937	1537	0	206	1321
Silver	7440-22-4	84	816	14338	7198	5106	0	715	1319
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	58	372	7051	5239	464	0	196	1152
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	56	288	4296	2698	452	0	49	1097
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	82	851	14775	6056	7233	0	418	1068
Antimony	7440-36-0	79	816	17502	10026	5518	0	969	989
Anthracene	120-12-7	73	548	9520	6505	1980	1	174	860
Dichloromethane 75-09-	2	102	1196	38619	11818	24092	1315	597	797
Molybdenum	7439-98-7	48	465	14189	6094	6594	0	756	745
Dibenzo(a,h)anthracene	53-70-3	65	470	7527	5346	1314	0	159	708
Naphthalene 91-20-	3	98	1064	36497	10334	24821	107	551	684
Fluorene	86-73-7	80	558	8658	4481	3372	0	195	610
Acenaphthene	83-32-9	75	513	7992	4457	2777	1	175	582

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Dieldrin 60-57-	1	49	259	4043	2426	949	0	209	459
Arochlor 1254	11097-69-1	41	162	2348	1883	47	0	37	381
Dibenzofuran	132-64-9	54	267	3710	1681	1558	0	123	348
Chlorobenzene 108-90	-7	75	551	31976	6130	24315	689	512	330
Acenaphthylene	208-96-8	62	330	4508	2363	1713	0	120	312
cis-1,2-Dichloroethylene 156-59	-2	86	933	91436	3462	84061	1896	1741	276
Carbon disulfide	75-15-0	64	539	9796	1179	7482	726	146	263
Dibutyl phthalate	84-74-2	66	420	4297	1533	2313	0	193	258
Cyanide, free	57-12-5	33	215	2765	1109	1222	0	180	254
Heptachlor epoxide	1024-57-3	44	209	1624	794	447	0	135	248
Methoxychlor	72-43-5	39	165	1134	563	209	0	116	246
Trichloroethylene 79-01-	6	99	1141	126567	5624	115683	3219	1809	232
Endrin	72-20-8	37	152	1163	538	273	0	122	230
Aldrin	309-00-2	47	181	1294	598	355	0	127	214
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	44	155	1200	417	422	0	161	200
Heptachlor	76-44-8	44	184	1219	509	372	0	141	197
beta-Hexachlorocyclohexane	319-85-7	43	162	1226	385	499	0	160	182
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	39	177	1296	488	490	0	140	178
1,4-Dichlorobenzene 106-46	-7	81	516	17803	1362	15454	566	244	177
4-Methylphenol	106-44-5	45	189	2024	195	1557	0	114	158
gamma-Hexachlorocyclohexane	58-89-9	42	166	1163	330	495	0	187	151
Arochlor 1016	12674-11-2	18	39	373	156	41	0	27	149
1,2-Dichlorobenzene 95-50-	1	74	473	16996	1071	14952	592	238	143
p-Nitrophenol 100-02	-7	23	61	1538	52	1160	0	202	124
Butyl benzyl phthalate	85-68-7	54	249	2002	479	1289	0	112	122
Ethylbenzene 100-41	-4	99	1059	37092	7192	27159	2368	259	114
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	23	73	1822	1651	62	0	2	107
1,2,4-Trichlorobenzene	120-82-1	68	353	7296	772	5828	383	209	104
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	22	72	1763	1594	63	0	4	102
Toxaphene 8001-35	-2	9	17	276	38	38	0	101	99
Tetrachloroethylene 127-18	-4	85	846	49859	3733	43377	2081	576	92
1,1,1,2-Tetrachloroethane 630-20	-6	20	83	21450	259	16661	0	4444	86
beta-Chloronaphthalene 91-58-	7	19	46	1200	77	948	0	92	83

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Diethyl phthalate	84-66-2	63	316	2611	416	1998	0	115	82
1,3-Dichlorobenzene	541-73-1	70	388	10787	596	9324	565	221	81
Pentachloronitrobenzene 82-68-	8	1	1	138	58	3	0	10	67
Hexachlorobutadiene	87-68-3	46	202	6258	377	5277	334	204	66
Cumene 98-82-	8	85	599	20364	3059	16945	104	194	62
Bromoform	75-25-2	52	248	6258	549	5158	308	186	57
N-Nitrosodiphenylamine	86-30-6	37	99	1461	224	1086	0	94	57
o-Dinitrobenzene 528-29	-0	5	46	4493	1908	2404	0	125	56
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	27	54	540	423	59	0	5	53
trans-1,2-Dichloroethylene 156-60	-5	74	606	34809	945	32883	579	351	51
2,4-Dinitrotoluene	121-14-2	30	97	1397	262	988	0	96	51
Styrene	100-42-5	67	308	6067	558	4652	679	132	46
Hexachlorobenzene 118-74	-1	18	51	1150	80	934	0	94	42
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	14	24	132	50	17	0	23	42
2,4-Dimethylphenol	105-67-9	46	161	1890	128	1615	0	106	41
Pentachlorophenol	87-86-5	36	116	1739	123	1480	0	95	41
2-Methylphenol	95-48-7	40	138	1669	142	1380	0	106	41
Bis(chloroethyl)ether 111-44	-4	20	50	1155	36	986	0	92	41
2,6-Dinitrotoluene 606-20	-2	24	70	1204	72	1002	0	92	38
2,4,6-Trichlorophenol 88-06-	2	21	49	1115	34	951	0	92	38
Bis(2-chloroisopropyl) ether	108-60-1	12	37	1104	26	948	0	92	38
2-Chlorophenol 95-57-	8	23	66	1356	30	1195	0	94	37
N-Nitroso-di-N-propylamine 621-64	-7	29	70	1157	51	976	0	93	37
Hexachloroethane 67-72-	1	17	44	1132	62	941	0	92	37
2,4,5-Trichlorophenol 95-95-	4	19	43	1111	31	951	0	92	37
1,2-Dichloroethane 107-06	-2	76	546	17299	564	15973	579	147	36
1,1,2,2-Tetrachloroethane	79-34-5	52	196	6782	380	5766	457	143	36
2,4-Dichlorophenol 120-83	-2	26	73	1197	36	1033	0	92	36
Isophorone 78-59-	1	26	63	1155	59	964	0	96	36
Trichlorofluoromethane	75-69-4	63	353	9856	1221	7542	944	114	35
p-Chloroaniline 106-47	-8	21	62	1177	70	979	0	93	35
Nitrobenzene 98-95-	3	26	56	1159	40	990	0	94	35
2,4-Dinitrophenol 51-28-	5	16	46	1118	25	966	0	92	35

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Bis(2-chloroethoxy)methane 111-91	-1	15	40	1096	29	940	0	92	35
Chromium (VI)	18540-29-9	16	103	1783	676	1051	0	22	34
1,2-Dibromo-3-chloropropane	96-12-8	31	102	4477	264	4076	0	105	32
Dichlorodifluoromethane	75-71-8	65	293	7534	338	5998	1045	125	28
1,1,2-Trichloroethane	79-00-5	62	305	9703	460	8694	401	121	27
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	10	37	187	150	4	0	6	27
1,1-Dichloroethane 75-34-	3	77	528	26976	735	25174	793	248	26
Methyl tert-butyl ether	1634-04-4	63	436	13791	684	12361	374	347	25
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	18	52	185	110	39	0	11	25
2,4,5-Trichlorophenoxyacetic acid	93-76-5	13	41	127	31	70	0	1	25
Ethyl chloride	75-00-3	67	327	9386	363	8422	435	142	24
o-Chlorotoluene	95-49-8	33	121	4697	281	4287	0	105	24
Bromodichloromethane	75-27-4	65	369	7027	288	6216	322	178	23
Bromomethane	74-83-9	59	370	6840	658	5606	410	143	23
Dibromochloromethane	124-48-1	59	283	6241	343	5403	308	164	23
Bromochloromethane	74-97-5	24	78	4762	370	4190	70	109	23
Carbon tetrachloride	56-23-5	66	329	14195	540	12889	619	125	22
1,2-Dichloropropane	78-87-5	57	255	8358	319	7584	326	107	22
1,2,3-Trichloropropane	96-18-4	34	96	4453	255	4072	0	104	22
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	12	34	121	66	31	0	5	19
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	8	43	786	258	500	0	10	18
Dalapon (sodium salt)	75-99-0	13	20	89	33	37	0	8	11
1,4-Dioxane 123-91	-1	13	51	1837	58	1376	393	2	8
2,4,6-Trinitrotoluene 118-96	-7	6	28	270	225	35	0	2	8
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	16	32	117	39	63	0	7	8
1,1,1-Trichloroethane	71-55-6	69	355	9644	521	8637	397	83	6
Polychlorinated biphenyls	1336-36-3	7	10	1210	1197	8	0	0	5
Acetophenone 98-86-	2	12	34	101	25	67	6	0	3
Benzaldehyde 100-52	-7	6	9	44	39	2	0	0	3
Benzidine 92-87-	5	4	4	9	4	2	0	0	3
Dicamba 1918-00	-9	13	25	57	31	22	0	2	2
1,3,5-Trinitrobenzene 99-35-	4	4	5	23	11	10	0	0	2
Hydrazine/hydrazine sulfate	302-01-2	1	3	17	7	8	0	0	2

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Aniline 62-	53-3	6	6	12	4	6	0	0	2
N-Nitrosodimethylamine 62-75-	9	6	28	397	3	388	0	5	1
Pyridine 110-86	-1	6	7	27	23	3	0	0	1
Acrylonitrile 107-13	-1	4	10	19	3	15	0	0	1
Picloram 1918-02	-1	1	9	10	3	6	0	0	1
Azobenzene 103-33	-3	3	3	4	1	2	0	0	1
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	23	98	2224	55	930	1238	1	0
n-Heptane 142-82	-5	5	19	638	0	5	633	0	0
Vinyl acetate	108-05-4	15	31	390	15	65	308	2	0
Benzyl chloride	100-44-7	3	4	338	0	0	338	0	0
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	6	22	330	125	205	0	0	0
Caprolactam 105-60	-2	8	23	172	28	138	0	6	0
Vanadium pentoxide	1314-62-1	2	8	169	15	154	0	0	0
Uranium, natural	7440-61-1	2	8	169	15	154	0	0	0
1,1-Biphenyl 92-52-	4	8	14	75	43	32	0	0	0
Acetaldehyde 75-07-	0	2	3	56	0	51	5	0	0
3-Methylphenol 108-39	-4	5	16	52	8	44	0	0	0
Dinoseb 88-85-	7	10	13	48	36	12	0	0	0
Formaldehyde 50-00-	0	1	1	47	0	47	0	0	0
Chloramben 133-90	-4	1	13	43	13	30	0	0	0
Ethyl acetate	141-78-6	2	8	43	26	17	0	0	0
Ethylene glycol	107-21-1	2	9	34	25	8	0	1	0
Chlorobenzilate 510-15	-6	2	4	14	6	8	0	0	0
Methanol 67-56-	1	1	1	14	0	13	1	0	0
2,3,4,6-Tetrachlorophenol 58-90-	2	5	7	13	1	12	0	0	0
Diphenylamine 122-39	-4	2	3	10	0	10	0	0	0
Chlorine 7782-50	-5	1	1	9	0	0	0	9	0
Chromium III, insoluble salts	16065-83-1	1	2	7	0	7	0	0	0
Atrazine 1912-24	-9	1	1	6	1	3	0	2	0
Dacthal 1861-32	-1	1	4	5	1	4	0	0	0
Dibromodichloromethane 594-18	-3	2	2	5	0	5	0	0	0
Formic acid	64-18-6	2	2	5	0	5	0	0	0
Simazine 122-34	-9			4	4	0	0	0	0

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
N-Nitrosodiethylamine 55-18-	5	2	3	4	0	4	0	0	0
Methacrylonitrile 126-98	-7	1	2	3	0	3	0	0	0
Propylene glycol	57-55-6			2	2	0	0	0	0
Isobutyl alcohol	78-83-1			2	0	1	0	1	0
N-Nitroso-di-n-butylamine 924-16	-3	1	2	2	0	2	0	0	0
N-Nitroso-N-methylethylamine 10595-95	-6	1	1	1	0	1	0	0	0
Allyl chloride	107-05-1			1	0	0	1	0	0
Cyclohexanone	108-94-1			1	0	1	0	0	0
Asbestos 1332-21	-4			1	1	0	0	0	0
Mirex 2385-85	-5	1	1	1	1	0	0	0	0
Pentachlorobenzene 608-93	-5	1	1	1	1	0	0	0	0
Chlorodifluoromethane 75-45-	6	1	1	1	0	1	0	0	0
N-Nitrosopyrrolidine 930-55	-2	1	1	1	1	0	0	0	0
Captafol 2425-06	-1								
Dodine	2439-10-3								
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7								
Nitric Oxide	10102-43-9								
Thallium nitrate	10102-45-1								
Express 101200-4	8-0								
Chlorpropham 101-21	-3								
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1								
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8								
Methamidophos	10265-92-6								
di(2-ethylhexyl)Adipate 103-23	-1								
Resmethrin 10453-86	-8								
Monchloramine	10599-90-3								
1,4-Dibromobenzene 106-37	-6								
Quinone 106-51	-4								
1,2-Epoxybutane	106-88-7								
Epichlorohydrin 106-89	-8								
Ethylene diamine	107-15-3								
Glyphosate	1071-83-6								
Allyl alcohol	107-18-6								

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Propargyl alcohol	107-19-7								
Chloromethyl methyl ether	107-30-2								
Propylene glycol monomethyl ether	107-98-2								
Maleic anhydride	108-31-6								
m-Phenylenediamine	108-45-2								
Cyclohexylamine 108-91	-8								
1-Chlorobutane	109-69-3								
2-Methoxyethanol	109-86-4								
Furan 110-00	-9								
2-Ethoxyethanol 110-80	-5								
N-Nitrosodiethanolamine 1116-54	-7								
Adiponitrile 111-69	-3								
Baygon 114-26	-1								
Endosulfan 115-29	-7								
Aldicarb 116-06	-3								
Decabromodiphenyl ether (DBDPE)	1163-19-5								
3,3-Dimethylbenzidine 119-93	-7								
Nickel subsulfide	12035-72-2								
Thallium selenite	12039-52-0								
Dimethyl terephthalate (DMT)	120-61-6								
Zineb 12122-67	-7								
Triethylamine 121-44	-8								
N,N-Dimethylaniline 121-69	-7								
Malathion 121-75	-5								
Propham 122-42	-9								
1,2-Diphenylhydrazine 122-66	-7								
p-Chlorophenyl methyl sulfide	123-09-1								
Hydroquinone	123-31-9								
Maleic hydrazide	123-33-1								
Maneb 12427-38	-2								
Dimethylamine 124-40	-3								
Chlordane (technical)	12789-03-6								
Antimony trioxide	1309-64-4								

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Thallic oxide	1314-32-5								
Zinc phosphide	1314-84-7								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5								
Tricresol	1319-77-3								
Captan 133-06	-2								
Folpet	133-07-3								
Nickel carbonyl	13463-39-3								
Quinalphos 13593-03	-8								
Phenmedipham 13684-63	-4								
Thiram 137-26	-8								
Propazine 139-40	-2								
Aramite 140-57	-8								
Bidrin 141-66	-2								
Triethylene glycol monobutyl ether	143-22-6								
Sodium cyanide	143-33-9								
Diisopropyl methylphosphonate	1445-75-6								
Endothall 145-73	-3								
Nitrate 14797-55	-8								
Nitrite 14797-65	-0								
Sodium diethyldithiocarbamate	148-18-5								
Merphos 150-50	-5								
Potassium cyanide	151-50-8								
Ethyleneimine	151-56-4								
Napropamide 15299-99	-7								
Carbofuran 1563-66	-2								
Trifluralin 1582-09	-8								
Alar 1596-84	-5								
Alachlor	15972-60-8								
Prometon 1610-18	-0								
Aldicarb sulfone	1646-88-4								
Ethephon 16672-87	-0								
Methomyl 16752-77	-5								
Bromoxynil 1689-84	-5								

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Bromoxynil octanoate	1689-99-2								
Benomyl	17804-35-2								
Isopropyl methyl phosphonic acid	1832-54-8								
Benefin 1861-40	-1								
Chlorothalonil	1897-45-6								
Oryzalin	19044-88-3								
Paraquat 1910-42	-5								
Propachlor	1918-16-7								
Vernam 1929-77	-7								
Nitrapyrin	1929-82-4								
Oxadiazon 19666-30	-9								
Butylate	2008-41-5								
p,p'-Dibromodiphenyl ether	2050-47-7								
Aluminum phosphide	20859-73-8								
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5								
Metribuzin 21087-64	-9								
Fluometuron 2164-17	-2								
Cyanazine	21725-46-2								
Molinate 2212-67	-1								
Fenamiphos	22224-92-6								
Triallate	2303-17-5								
Phosalone 2310-17	-0								
Propargite 2312-35	-8								
Oxamyl 23135-22	-0								
Thiophanate-methyl 23564-05	-8								
Pronamide 23950-58	-5								
Mepiquat chloride	24307-26-4								
Pentachlorocyclopentadiene 25329-35	-5								
Sodium azide	26628-22-8								
Norflurazon 27314-13	-2								
Thiobencarb 28249-77	-6								
Chlorpyrifos	2921-88-2								
Pirimiphos-methyl 29232-93	-7								

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Methyl parathion	298-00-0								
Disulfoton	298-04-4								
Naled 300-76	-5								
Acephate 30560-19	-1								
Pentabromodiphenyl ether	32534-81-9								
Octabromodiphenyl ether	32536-52-0								
Diuron 330-54	-1								
Linuron	330-55-2								
Amitraz 33089-61	-1								
Asulam 3337-71	-1								
Diazomethane	334-88-3								
Isopropalin 33820-53	-0								
Tebuthiuron 34014-18	-1								
Acetochlor 34256-82	-1								
Diflubenzuron 35367-38	-5								
Pentafluoroethane	354-33-6								
Imazalil 35554-44	-0								
Hexabromodiphenyl ether	36483-60-0								
Iprodione 36734-19	-7								
Tetraethyldithiopyrophosphate 3689-24	-5								
Fosetyl-al	39148-24-8								
Danitol 39515-41	-8								
Tetrabromodiphenyl ether	40088-47-9								
Pendimethalin 40487-42	-1								
Oxyfluorfen 42874-03	-3								
Bayleton 43121-43	-3								
Difenzoquat 43222-48	-6								
Cyanogen 460-19	-5								
Carbonyl sulfide	463-58-1								
Tribromodiphenyl ether	49690-94-0								
4-Aminopyridine 504-24	-5								
Vinclozolin	50471-44-8								
Potassium silver cyanide	506-61-6								

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Silver cyanide	506-64-9								
Chlorine cyanide	506-77-4								
t-Butyl chloride	507-20-0								
Metolachlor 51218-45	-2								
Hexazinone 51235-04	-2								
Pydrin 51630-58	-1								
Ethyl carbamate	51-79-6								
Propylene glycol monoethyl ether	52125-53-8								
Cypermethrin 52315-07	-8								
Carboxin	5234-68-4								
Permethrin	52645-53-1								
2-Chloroacetophenone	532-27-4								
Barium cyanide	542-62-1								
Bis(chloromethyl) ether	542-88-1								
Copper cyanide	544-92-3								
Carbosulfan	55285-14-8								
Dimethipin 55290-64	-7								
Nitroguanidine	556-88-7								
Zinc cyanide	557-21-1								
Ethion 563-12	-2								
Tributyltin oxide	56-35-9								
Thallium acetate	563-68-8								
Parathion 56-38-	2								
Strychnine 57-24-	9								
beta-Propiolactone 57-57-	8								
2,6-Dimethylphenol	576-26-1								
Metalaxyl	57837-19-1								
Tridiphane 58138-08	-2								
Terbacil 5902-51	-2								
Calcium cyanide	592-01-8								
Vinyl bromide	593-60-2								
Fluridone 59756-60	-4								
1,1,2-Trichloropropane 598-77	-6								

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
d-Limonene 5989-27	-5								
Propiconazole 60207-90	-1								
Dimethoate 60-51-	5								
Furmecyclox	60568-05-0								
technical Hexachlorocyclohexane (t-HCH)	608-73-1								
1,2,4-Tribromobenzene	615-54-3								
Phenylmercuric acetate	62-38-4								
Acifluorfen, sodium	62476-59-9								
Methyl isocyanate	624-83-9								
Dichlorvos	62-73-7								
Sodium fluoroacetate	62-74-8								
Selenourea 630-10	-4								
Ammonium acetate	631-61-8								
Carbaryl 63-25-	2								
Nonabromodiphenyl ether	63936-56-1								
Diethyl sulfate	64-67-5								
Chlorsulfuron 64902-72	-3								
Avermectin B1	65195-55-3								
Thallium carbonate	6533-73-9								
Cyromazine	66215-27-8								
Flutolanil	66332-96-5								
Tralomethrin 66841-25	-6								
Amdro 67485-29	-4								
Prochloraz 67747-09	-5								
Cyhalothrin/karate 68085-85	-8								
N,N-Dimethylformamide 68-12-	2								
Baythroid 68359-37	-5								
Fluvalinate 69409-94	-5								
Haloxypop-methyl 69806-40	-2								
Hexachlorophene 70-30-	4								
Propanil 709-98	-8								
n-Butanol 71-36-	3								
Fomasafen 72178-02	-0								

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Prometryn 7287-19	-6								
Phosmet	732-11-6								
Sethoxydim 74051-80	-2								
Apollo 74115-24	-5								
Ally 74223-64	-6								
Radium 226,228	7440-14-4								
Thallium (I) sulfate	7446-18-6								
Selenium sulfide	7446-34-6								
Mercuric chloride	7487-94-7								
Hydrogen cyanide	74-90-8								
Propyleneimine 75-55-	8								
Propylene oxide	75-56-9								
Cacodylic acid	75-60-5								
Bromotrichloromethane 75-62-	7								
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4								
Trichloroacetic acid	76-03-9								
Hydrogen chloride	7647-01-0								
Glycidaldehyde	765-34-4								
Assure 76578-14	-8								
Phosphoric acid	7664-38-2								
Ammonia 7664-41	-7								
Paclobutrazol 76738-62	-0								
Glufosinate-ammonium	77182-82-2								
White phosphorus	7723-14-0								
Trichlorocyclopentadiene	77323-84-3								
Lactofen 77501-63	-4								
Aluminum sulfamate	7773-06-0								
Dimethyl sulfate	77-78-1								
Fluorine, soluble fluoride	7782-41-4								
Selenious acid	7783-00-8								
Arsine	7784-42-1								
Thallium chloride	7791-12-0								
Tetraethyl lead	78-00-2								

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
Phosphine 7803-51	-2								
Merphos oxide	78-48-8								
Savey 78587-05	-0								
Acrylamide 79-06-	1								
Acrylic acid	79-10-7								
Methyl chlorocarbonate	79-22-1								
Harmony 79277-27	-3								
2-Nitropropane 79-46-	9								
Creosote 8001-58	-9								
Bisphenol A	80-05-7								
Coke oven emissions	8007-45-2								
Demeton 8065-48	-3								
1,1,1,2-Tetrafluoroethane 811-97	-2								
Imazaquin 81335-37	-7								
Pursuit 81335-77	-5								
Warfarin 81-81-	2								
Triasulfuron 82097-50	-5								
1,6-Hexamethylene diisocyanate	822-06-0								
Isoxaben 82558-50	-7								
Biphenrin	82657-04-3								
Londax 83055-99	-6								
Ametryn	834-12-8								
Rotenone 83-79-	4								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0								
Diquat 85-00-	7								
Phthalic anhydride	85-44-9								
Nustar 85509-19	-9								
Hexabromobenzene 87-82-	1								
Terbutryn	886-50-0								
Systhane	88671-89-0								
ortho-Anisidine 90-04-	0								
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9								
Chlorimuron-ethyl 90982-32	-4								

TABLE A-4h. Air Force ERP Surface-Water Samples: IRIS Chemicals of Interest Ranked by the Number (Bold Font) of Air Force ERP Surface-Water Samples in Which They Were Detected (*Cont.*)

CHEMICAL NAME	CASRN	Installations With Detects	Sites With Detects	Total Detects	Soil Detects	Groundwater Detects	Soil Gas Detects	Surface Water Detects	Sediment Detects
p-Chlorophenyl methyl sulfoxide	934-73-6								
Fonofos 944-22	-9								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5								
Methidathion	950-37-8								
3,4-Dimethylphenol 95-65-	8								
Diphenamid 957-51	-7								
2,4-Diaminotoluene	95-80-7								
1,2,4,5-Tetrachlorobenzene 95-94-	3								
Tetrachlorovinphos 961-11	-5								
Methyl acrylate	96-33-3								
Ethylene thiourea	96-45-7								
Furfural 98-01-	1								
Benzotrichloride 98-07-	7								
p-Chlorophenyl methyl sulfone	98-57-7								

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APPENDIX A-5

Ranking of the USEPA IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites with Chemical Detections) Combined Scoring

TABLE A-5a.	ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font)
TABLE A-5b.	HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font)
TABLE A-5c.	Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font)
TABLE A-5d.	ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details)
TABLE A-5e.	HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details)

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TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,448
Mercury, elemental	7439-97-6	1,504.69	1,588	981
Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	10
Cadmium 7440-43	-9	1,324.22	1,970	1,191
Benzo [a] pyrene	50-32-8	1,312.45	41	703
Benzo(b)fluoranthene 205-99	-2	1,266.55	25	698
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	372
Arochlor 1254	11097-69-1	1,182.63	70	162
Dibenzo(a,h)anthracene 53-70-	3	1,165.88	23	470
Trichloroethylene 79-01-	6	1,154.73	568	1,141
Dieldrin 60-57-	1	1,150.91	45	259
Chromium (VI)	18540-29-9	1,149.98	147	103
White phosphorus	7723-14-0	1,144.77	1,054	
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	1,132.49	37	54
Hexachlorobutadiene 87-68-	3	1,129.63		202
Creosote 8001-58	-9	1,124.32	32	
Aldrin 309-00	-2	1,117.22	44	181
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	288
Benzidine 92-87-	5	1,114.24	23	4
Cyanide, free	57-12-5	1,099.48	48	215
Toxaphene 8001-35	-2	1,086.65	24	17
gamma-Hexachlorocyclohexane 58-89-	9	1,081.63	82	166
Tetrachloroethylene 127-18	-4	1,080.43	929	846
Heptachlor	76-44-8	1,072.67	54	184
beta-Hexachlorocyclohexane 319-85	-7	1,060.22	29	162
Disulfoton 298-04	-4	1,058.85	25	
Benzo(a)anthracene 56-55-	3	1,057.96	33	693
Endrin 72-20-	8	1,048.57	58	152
Beryllium and compounds	7440-41-7	1,046.12	379	948
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30	177
1,2-Dibromo-3-chloropropane 96-12-	8	1,035.55	30	102
Pentachlorophenol 87-86-	5	1,028.01	110	116
Heptachlor epoxide	1024-57-3	1,027.12	45	209
Carbon tetrachloride	56-23-5	1,023.32	292	329
Arochlor 1016	12674-11-2	1,014.33	41	39
Dibutyl phthalate	84-74-2	1,007.49	1,132	420
Nickel 7440-02	-0	1,005.40	7,850	1,210
Endosulfan 115-29	-7	1,004.65	3	
Methoxychlor 72-43-	5	994.47	63	165
Benzo(k)fluoranthene 207-08	-9	981.26	24	583
Cacodylic acid	75-60-5	922.06	11	

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	851
Naphthalene 91-20-	3	896.67	1,635	1,064
Dichloromethane 75-09-	2	888.96	4,136	1,196
2,4,6-Trinitrotoluene 118-96	-7	883.59	51	28
Hydrazine/hydrazine sulfate	302-01-2	864.41	69	3
1,2-Dichloroethane 107-06	-2	863.99	440	546
2,4,6-Trichlorophenol 88-06-	2	863.71	35	49
2,4-Dinitrophenol 51-28-	5	860.45	34	46
Bis(chloroethyl)ether 111-44	-4	859.88	20	50
Asbestos 1332-21	-4	841.54	475	
Chlorine 7782-50	-5	840.37	241	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	43
Hexachlorobenzene 118-74	-1	838.34	88	51
2,4-Dinitrotoluene 121-14	-2	837.88	43	97
Ethion 563-12	-2	834.03	6	
1,1,1-Trichloroethane 71-55-	6	833.81	3,552	355
Uranium, natural	7440-61-1	833.41	59	8
Ethylbenzene 100-41	-4	832.13	10,696	1,059
Radium 226,228	7440-14-4	828.07		
1,3,5-Trinitrobenzene 99-35-	4	820.17	7	5
Chlorobenzene 108-90	-7	819.69	213	551
Fluoranthene 206-44	-0	812.40	32	804
N-Nitroso-di-N-propylamine 621-64	-7	811.05	23	70
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	155
Manganese 7439-96	-5	807.90	7,411	1,292
Coke oven emissions	8007-45-2	807.07	77	
Chlorpyrifos 2921-88	-2	804.93	166	
Copper 7440-50	-8	804.86	6,993	1,208
Hydrogen cyanide	74-90-8	803.08	32	
Chrysene 218-01	-9	802.10	34	733
Merphos oxide	78-48-8	797.88	2	
Parathion 56-38-	2	784.14	8	
1,1,2,2-Tetrachloroethane 79-34-	5	782.15	43	196
Selenium and compounds	7782-49-2	778.98	296	1,097
technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	
Trifluralin 1582-09	-8	770.12	27	
Pentachlorobenzene 608-93	-5	753.58	4	1
Ammonia 7664-41	-7	745.55	1,453	
1,4-Dichlorobenzene 106-46	-7	737.32	246	516
1,1-Dichloroethane 75-34-	3	736.23	45	528
Acenaphthene 83-32-	9	731.25	37	513
1,1,2-Trichloroethane 79-00-	5	724.96	51	305
1,2-Diphenylhydrazine 122-66	-7	713.90	1	
4-Methylphenol 106-44	-5	707.83	39	189

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
1,2-Dichlorobenzene 95-50-	1	704.91	249 473	
trans-1,2-Dichloroethylene 156-60	-5	704.04	136 606	
Indeno[1,2,3-cd]pyrene 193-39	-5	703.30	23 604	
Carbon disulfide	75-15-0	702.55	40 539	
Ethyl chloride	75-00-3	693.90	64 327	
Dibenzofuran 132-64	-9	689.19	17 267	
2,4-Dimethylphenol 105-67	-9	685.76	26 161	
Butyl benzyl phthalate	85-68-7	659.38	1,070 249	
2-Methylphenol 95-48-	7	658.66	103 138	
Hexachloroethane 67-72-	1	653.10	39 44	
N-Nitrosodimethylamine 62-75-	9	650.71	16 28	
1,2,4-Trichlorobenzene 120-82	-1	647.30	56 353	
Bromoform 75-25-	2	643.53	68 248	
1,3-Dichlorobenzene 541-73	-1	631.41	62 388	
N-Nitrosodiphenylamine 86-30-	6	624.79	29 99	
2,4-Dichlorophenol 120-83	-2	616.45		73
1,4-Dioxane 123-91	-1	616.29	623 51	
Fluorine, soluble fluoride	7782-41-4	613.28		
Nitrite 14797-65	-0	612.64		
Silver 7440-22	-4	612.19	2,491 816	
Nitrate 14797-55	-8	610.66	2	
Antimony 7440-36	-0	605.37	2,105 816	
2,4,5-Trichlorophenol 95-95-	4	604.83	21 43	
Tricresol 1319-77	-3	602.74	272	
Chlordane (technical)	12789-03-6	602.62	1	
Dimethoate 60-51-	5	602.61	11	
Arsine 7784-42	-1	602.42	11	
Naled 300-76	-5	602.32	18	
Dichlorvos 62-73-	7	601.64	49	
Mercuric chloride	7487-94-7	601.45	50	
Formaldehyde 50-00-	0	599.64		1
2-Chlorophenol 95-57-	8	599.62	36 66	
Phenanthrene 85-01-	8	597.68	36 799	
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109 24	
Dibromochloromethane 124-48	-1	580.59	48 283	
Diuron 330-54	-1	579.16	72	
Butylate 2008-41	-5	578.43	5	
N,N-Dimethylformamide 68-12-	2	578.23	363	
Pyrene 129-00	-0	577.95	30 788	
p-Nitrophenol 100-02	-7	567.79	55 61	
Phosphine 7803-51	-2	559.74	16	
2,6-Dinitrotoluene 606-20	-2	555.20	20 70	
Methyl parathion	298-00-0	545.83	7	
di(2-ethylhexyl)Adipate 103-23	-1	540.20	50	

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
cis-1,2-Dichloroethylene 156-59	-2	533.15	27 933	
Styrene 100-42	-5	532.70	1,646 308	
Carbaryl 63-25-	2	530.98	93	
Acrylonitrile 107-13	-1	528.28	265 10	
Ethylene glycol	107-21-1		10,234	9
Methanol 67-56-	1		7,659	1
n-Butanol 71-36-	3		6,253	
Ethyl acetate	141-78-6		4,385	8
Propylene glycol	57-55-6		4,063	
Molybdenum 7439-98	-7		3,186	465
Cyclohexanone 108-94	-1		2,829	
Hydrogen chloride	7647-01-0		2,670	
Phosphoric acid	7664-38-2		2,437	
Isobutyl alcohol	78-83-1		2,432	
Hydroquinone 123-31	-9		2,337	
1,6-Hexamethylene diisocyanate	822-06-0		2,283	
n-Heptane 142-82	-5		2,116	19
Propylene glycol monomethyl ether	107-98-2		2,048	
Cumene 98-82-	8		1,632	599
d-Limonene 5989-27	-5		1,488	
Sodium azide	26628-22-8		1,100	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	98
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	
Dichlorodifluoromethane 75-71-	8		953	293
Vinyl acetate	108-05-4		953	31
Antimony trioxide	1309-64-4		906	
1,1,1,2-Tetrafluoroethane 811-97	-2		775	
Chlorodifluoromethane 75-45-	6		774	1
Methyl tert-butyl ether	1634-04-4		742	436
2-Ethoxyethanol 110-80	-5		688	
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	
Vanadium pentoxide	1314-62-1		587	8
Epichlorohydrin 106-89	-8		559	
2-Methoxyethanol 109-86	-4		559	
Trichlorofluoromethane 75-69-	4		535	353
Bisphenol A	80-05-7		482	
Triethylamine 121-44	-8		459	
Ethylene diamine	107-15-3		377	
Ammonium acetate	631-61-8		368	
Acetaldehyde 75-07-	0		323	3
Acrylamide 79-06-	1		303	
1,2-Epoxybutane 106-88	-7		300	
Formic acid	64-18-6		271	2
Propylene oxide	75-56-9		246	

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Phenylmercuric acetate	62-38-4		240	
Isophorone 78-59-	1		237	63
Acrylic acid	79-10-7		234	
Chlorothalonil 1897-45	-6		205	
Potassium cyanide	151-50-8		161	
Cyclohexylamine 108-91	-8		154	
Aniline 62-53-3			140	6
Diphenylamine 122-39	-4		123	3
Chromium III, insoluble salts	16065-83-1		118	2
Selenious acid	7783-00-8		110	
Baygon 114-26	-1		106	
Tributyltin oxide	56-35-9		106	
Permethrin 52645-53	-1		103	
Methyl acrylate	96-33-3		102	
Benzaldehyde 100-52	-7		101	9
Tetraethyl lead	78-00-2		99	
1,1-Biphenyl 92-52-	4		98	14
o-Chlorotoluene 95-49-	8		94	121
Thiram 137-26	-8		93	
Sodium cyanide	143-33-9		90	
m-Phenylenediamine 108-45	-2		89	
Resmethrin 10453-86	-8		86	
Pentafluoroethane 354-33	-6		86	
Pyridine 110-86	-1		83	7
Malathion 121-75	-5		80	
Amdro 67485-29	-4		77	
N,N-Dimethylaniline 121-69	-7		68	
Folpet 133-07	-3		68	
Ethylene thiourea	96-45-7		65	
Bromomethane 74-83-	9		63	370
Trichloroacetic acid	76-03-9		62	
Furfural 98-01-	1		61	
Triethylene glycol monobutyl ether	143-22-6		60	
Dicamba 1918-00	-9		58	25
Diethyl phthalate	84-66-2		56	316
Decabromodiphenyl ether (DBDPE)	1163-19-5		56	
Bromochloromethane 74-97-	5		55	78
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	52
1,2-Dichloropropane 78-87-	5		51	255
Bromodichloromethane 75-27-	4		50	369
Baythroid 68359-37	-5		50	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0		46	22
Simazine 122-34	-9		46	
3-Methylphenol 108-39	-4		43	16

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Nitric Oxide	10102-43-9		43	
2-Nitropropane 79-46-	9		43	
Anthracene 120-12	-7		38	548
Dimethylamine 124-40	-3		38	
Nitrobenzene 98-95-	3		37	56
Atrazine 1912-24	-9		37	1
Glyphosate 1071-83	-6		33	
Pendimethalin 40487-42	-1		32	
Diquat 85-00-	7		32	
Acephate 30560-19	-1		30	
Silver cyanide	506-64-9		29	
Hexazinone 51235-04	-2		29	
Prometon 1610-18	-0		28	
Thallium nitrate	10102-45-1		27	
Selenium sulfide	7446-34-6		27	
Cypermethrin 52315-07	-8		26	
beta-Chloronaphthalene 91-58-	7		24	46
Hexachlorophene 70-30-	4		24	
Caprolactam 105-60	-2		23	23
Methomyl 16752-77	-5		22	
Maleic anhydride	108-31-6		21	
Acenaphthylene 208-96	-8		20	330
1,2,3-Trichloropropane 96-18-	4		20	96
Dacthal 1861-32	-1		20	4
Copper cyanide	544-92-3		20	
Benzo[g,h,i]perylene 191-24	-2		19	610
Fluorene 86-73-	7		19	558
1,1,1,2-Tetrachloroethane 630-20	-6		19	83
Zinc phosphide	1314-84-7		19	
Alachlor 15972-60	-8		19	
Aluminum phosphide	20859-73-8		19	
2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	41
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	32
Azobenzene 103-33	-3		17	3
Propargyl alcohol	107-19-7		17	
Tebuthiuron 34014-18	-1		17	
Benefin 1861-40	-1		16	
Metribuzin 21087-64	-9		16	
4-Aminopyridine 504-24	-5		16	
Bayleton 43121-43	-3		15	
Bis(2-chloroethoxy)methane 111-91	-1		14	40
Bis(2-chloroisopropyl) ether	108-60-1		14	37
Acetophenone 98-86-	2		14	34
Dalapon (sodium salt)	75-99-0		14	20

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
1-Chlorobutane 109-69	-3		14	
3,3-Dimethylbenzidine 119-93	-7		14	
Propachlor 1918-16	-7		14	
Oxadiazon 19666-30	-9		14	
Pentabromodiphenyl ether	32534-81-9		14	
Iprodione 36734-19	-7		14	
Potassium silver cyanide	506-61-6		14	
Pydrin 51630-58	-1		14	
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	34
Dinoseb 88-85-	7		13	13
Oryzalin 19044-88	-3		13	
Chlorobenzilate 510-15	-6		12	4
Pentachloronitrobenzene 82-68-	8		12	1
Ethyl carbamate	51-79-6		12	
2,6-Dimethylphenol 576-26	-1		12	
Biphenthrin 82657-04	-3		12	
Quinone 106-51	-4		11	
Picloram 1918-02	-1		10	9
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	
Captan 133-06	-2		10	
2-Chloroacetophenone 532-27	-4		10	
Metalaxyl 57837-19	-1		10	
Metolachlor 51218-45	-2		9	
Zinc cyanide	557-21-1		9	
Aluminum sulfamate	7773-06-0		9	
Warfarin 81-81-	2		9	
p-Chloroaniline 106-47	-8		8	62
Chlorpropham 101-21	-3		8	
Endothall 145-73	-3		8	
Paraquat 1910-42	-5		8	
Pronamide 23950-58	-5		8	
Fluridone 59756-60	-4		8	
2,4-Diaminotoluene 95-80-	7		8	
Tetrachlorovinphos 961-11	-5		8	
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	37
Benzyl chloride	100-44-7		7	4
Sodium diethyldithiocarbamate	148-18-5		7	
Vernam 1929-77	-7		7	
Strychnine 57-24-	9		7	
Paclobutrazol 76738-62	-0		7	
Chloramben 133-90	-4		6	13
2,3,4,6-Tetrachlorophenol 58-90-	2		6	7
Maneb 12427-38	-2		6	
Thallic oxide	1314-32-5		6	

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Merphos 150-50	-5		6	
Benomyl 17804-35	-2		6	
Fenamiphos 22224-92	-6		6	
Cyanogen 460-19	-5		6	
Propylene glycol monoethyl ether	52125-53-8		6	
Barium cyanide	542-62-1		6	
Tralomethrin 66841-25	-6		6	
Ally 74223-64	-6		6	
Ametryn 834-12	-8		6	
Rotenone 83-79-	4		6	
Ethyleneimine 151-56	-4		5	
Molinate 2212-67	-1		5	
Oxamyl 23135-22	-0		5	
Carboxin 5234-68	-4		5	
Nitroguanidine 556-88	-7		5	
Phosmet 732-11	-6		5	
Allyl chloride	107-05-1		4	
N-Nitrosodiethanolamine 1116-54	-7		4	
Adiponitrile 111-69	-3		4	
Carbofuran 1563-66	-2		4	
Cyanazine 21725-46	-2		4	
Tetraethyldithiopyrophosphate 3689-24	-5		4	
Oxyfluorfen 42874-03	-3		4	
Carbonyl sulfide	463-58-1		4	
Vinclozolin 50471-44	-8		4	
Thallium acetate	563-68-8		4	
Propiconazole 60207-90	-1		4	
Avermectin B1	65195-55-3		4	
Prometryn 7287-19	-6		4	
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	
Dimethyl sulfate	77-78-1		4	
Methyl chlorocarbonate	79-22-1		4	
Isoxaben 82558-50	-7		4	
1,2,4,5-Tetrachlorobenzene 95-94-	3		4	
Dodine 2439-10	-3		3	
Aldicarb 116-06	-3		3	
Zineb 12122-67	-7		3	
Propazine 139-40	-2		3	
Aldicarb sulfone	1646-88-4		3	
Bromoxynil octanoate	1689-99-2		3	
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	
Norflurazon 27314-13	-2		3	
Amitraz 33089-61	-1		3	
Terbacil 5902-51	-2		3	

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Nonabromodiphenyl ether	63936-56-1		3	
Sethoxydim 74051-80	-2		3	
Terbutryn 886-50	-0		3	
Fonofos 944-22	-9		3	
3,4-Dimethylphenol 95-65-	8		3	
Diphenamid 957-51	-7		3	
Benzotrichloride 98-07-	7		3	
Methacrylonitrile 126-98	-7		2	2
N-Nitroso-di-n-butylamine 924-16	-3		2	2
1,4-Dibromobenzene 106-37	-6		2	
Dimethyl terephthalate (DMT)	120-61-6		2	
Aramite 140-57	-8		2	
Bidrin 141-66	-2		2	
Napropamide 15299-99	-7		2	
Nitrapyrin 1929-82	-4		2	
p,p'-Dibromodiphenyl ether	2050-47-7		2	
Octabromodiphenyl ether	32536-52-0		2	
Calcium cyanide	592-01-8		2	
1,2,4-Tribromobenzene 615-54	-3		2	
Acifluorfen, sodium	62476-59-9		2	
Sodium fluoroacetate	62-74-8		2	
Chlorsulfuron 64902-72	-3		2	
Flutolanil 66332-96	-5		2	
Fluvalinate 69409-94	-5		2	
Imazaquin 81335-37	-7		2	
N-Nitrosodiethylamine 55-18-	5		1	3
N-Nitroso-N-methylethylamine 10595-95	-6		1	1
N-Nitrosopyrrolidine 930-55	-2		1	1
Allyl alcohol	107-18-6		1	
Furan 110-00	-9		1	
Maleic hydrazide	123-33-1		1	
Fluometuron 2164-17	-2		1	
Triallate 2303-17	-5		1	
Thiobencarb 28249-77	-6		1	
Linuron 330-55	-2		1	
Isopropalin 33820-53	-0		1	
t-Butyl chloride	507-20-0		1	
Diethyl sulfate	64-67-5		1	
Thallium carbonate	6533-73-9		1	
Thallium (I) sulfate	7446-18-6		1	
Bromotrichloromethane 75-62-	7		1	
Thallium chloride	7791-12-0		1	
Systhane 88671-89	-0		1	
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7			73

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3			72
o-Dinitrobenzene 528-29	-0			46
Dibromodichloromethane 594-18	-3			2
Mirex 2385-85	-5			1
Captafol 2425-06	-1			
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7			
Express 101200-4	8-0			
Methamidophos 10265-92	-6			
Monchloramine 10599-90	-3			
Chloromethyl methyl ether	107-30-2			
Nickel subsulfide	12035-72-2			
Thallium selenite	12039-52-0			
Propham 122-42	-9			
p-Chlorophenyl methyl sulfide	123-09-1			
4,6-Dinitro-o-cyclohexyl phenol	131-89-5			
Nickel carbonyl	13463-39-3			
Quinalphos 13593-03	-8			
Phenmedipham 13684-63	-4			
Diisopropyl methylphosphonate	1445-75-6			
Alar 1596-84	-5			
Ethephon 16672-87	-0			
Bromoxynil 1689-84	-5			
Isopropyl methyl phosphonic acid	1832-54-8			
Phosolone 2310-17	-0			
Propargite 2312-35	-8			
Thiophanate-methyl 23564-05	-8			
Mepiquat chloride	24307-26-4			
Pentachlorocyclopentadiene 25329-35	-5			
Pirimiphos-methyl 29232-93	-7			
Asulam 3337-71	-1			
Diazomethane 334-88	-3			
Acetochlor 34256-82	-1			
Diflubenzuron 35367-38	-5			
Imazalil 35554-44	-0			
Hexabromodiphenyl ether	36483-60-0			
Fosetyl-al 39148-24	-8			
Danitol 39515-41	-8			
Tetrabromodiphenyl ether	40088-47-9			
Difenzoquat 43222-48	-6			
Tribromodiphenyl ether	49690-94-0			
Chlorine cyanide	506-77-4			
Bis(chloromethyl) ether	542-88-1			
Carbosulfan 55285-14	-8			
Dimethipin 55290-64	-7			

TABLE A-5a. ATSDR CERCLA Priority List: IRIS Chemicals of Interest Ranked by Their ATSDR CERCLA Priority List of Hazardous Chemical Points (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
beta-Propiolactone 57-57-	8			
Tridiphane 58138-08	-2			
Vinyl bromide	593-60-2			
1,1,2-Trichloropropane 598-77	-6			
Furmecyclox 60568-05	-0			
Methyl isocyanate	624-83-9			
Selenourea 630-10	-4			
Cyromazine 66215-27	-8			
Prochloraz 67747-09	-5			
Cyhalothrin/karate 68085-85	-8			
Haloxypop-methyl 69806-40	-2			
Propanil 709-98	-8			
Fomasafen 72178-02	-0			
Apollo 74115-24	-5			
Propyleneimine 75-55-	8			
Glycidaldehyde 765-34	-4			
Assure 76578-14	-8			
Glufosinate-ammonium 77182-82	-2			
Trichlorocyclopentadiene 77323-84	-3			
Lactofen 77501-63	-4			
Savey 78587-05	-0			
Harmony 79277-27	-3			
Demeton 8065-48	-3			
Pursuit 81335-77	-5			
Triasulfuron 82097-50	-5			
Londax 83055-99	-6			
Ethylphthalyl ethylglycolate (EPEG)	84-72-0			
Phthalic anhydride	85-44-9			
Nustar 85509-19	-9			
Hexabromobenzene 87-82-	1			
ortho-Anisidine 90-04-	0			
Chlorimuron-ethyl 90982-32	-4			
p-Chlorophenyl methyl sulfoxide	934-73-6			
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5			
Methidathion 950-37	-8			
p-Chlorophenyl methyl sulfone	98-57-7			

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TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Ethylbenzene 100-41	-4	832.13	10,696	1,059
Ethylene glycol	107-21-1		10,234	9
Nickel 7440-02	-0	1,005.40	7,850	1,210
Methanol 67-56-	1		7,659	1
Manganese 7439-96	-5	807.90	7,411	1,292
Copper 7440-50	-8	804.86	6,993	1,208
n-Butanol 71-36-	3		6,253	
Ethyl acetate	141-78-6		4,385	8
Dichloromethane 75-09-	2	888.96	4,136	1,196
Propylene glycol	57-55-6		4,063	
1,1,1-Trichloroethane 71-55-	6	833.81	3,552	355
Molybdenum 7439-98	-7		3,186	465
Cyclohexanone 108-94	-1		2,829	
Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	10
Hydrogen chloride	7647-01-0		2,670	
Silver 7440-22	-4	612.19	2,491	816
Phosphoric acid	7664-38-2		2,437	
Isobutyl alcohol	78-83-1		2,432	
Hydroquinone 123-31	-9		2,337	
1,6-Hexamethylene diisocyanate	822-06-0		2,283	
n-Heptane 142-82	-5		2,116	19
Antimony 7440-36	-0	605.37	2,105	816
Propylene glycol monomethyl ether	107-98-2		2,048	
Cadmium 7440-43	-9	1,324.22	1,970	1,191
Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,448
Styrene 100-42	-5	532.70	1,646	308
Naphthalene 91-20-	3	896.67	1,635	1,064
Cumene 98-82-	8		1,632	599
Mercury, elemental	7439-97-6	1,504.69	1,588	981
d-Limonene 5989-27	-5		1,488	
Ammonia 7664-41	-7	745.55	1,453	
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	851
Dibutyl phthalate	84-74-2	1,007.49	1,132	420
Sodium azide	26628-22-8		1,100	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	98
Butyl benzyl phthalate	85-68-7	659.38	1,070	249
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	
White phosphorus	7723-14-0	1,144.77	1,054	
Dichlorodifluoromethane 75-71-	8		953	293
Vinyl acetate	108-05-4		953	31
Tetrachloroethylene 127-18	-4	1,080.43	929	846

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Antimony trioxide	1309-64-4		906	
1,1,1,2-Tetrafluoroethane 811-97	-2		775	
Chlorodifluoromethane 75-45-	6		774	1
Methyl tert-butyl ether	1634-04-4		742	436
2-Ethoxyethanol 110-80	-5		688	
1,4-Dioxane 123-91	-1	616.29	623	51
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	
Vanadium pentoxide	1314-62-1		587	8
Trichloroethylene 79-01-	6	1,154.73	568	1,141
Epichlorohydrin 106-89	-8		559	
2-Methoxyethanol 109-86	-4		559	
Trichlorofluoromethane 75-69-	4		535	353
Bisphenol A	80-05-7		482	
Asbestos 1332-21	-4	841.54	475	
Triethylamine 121-44	-8		459	
1,2-Dichloroethane 107-06	-2	863.99	440	546
Beryllium and compounds	7440-41-7	1,046.12	379	948
Ethylene diamine	107-15-3		377	
Ammonium acetate	631-61-8		368	
N,N-Dimethylformamide 68-12-	2	578.23	363	
Acetaldehyde 75-07-	0		323	3
Acrylamide 79-06-	1		303	
1,2-Epoxybutane 106-88	-7		300	
Selenium and compounds	7782-49-2	778.98	296	1,097
Carbon tetrachloride	56-23-5	1,023.32	292	329
Tricresol 1319-77	-3	602.74	272	
Formic acid	64-18-6		271	2
Acrylonitrile 107-13	-1	528.28	265	10
1,2-Dichlorobenzene 95-50-	1	704.91	249	473
1,4-Dichlorobenzene 106-46	-7	737.32	246	516
Propylene oxide	75-56-9		246	
Chlorine 7782-50	-5	840.37	241	1
Phenylmercuric acetate	62-38-4		240	
Isophorone 78-59-	1		237	63
Acrylic acid	79-10-7		234	
Chlorobenzene 108-90	-7	819.69	213	551
Chlorothalonil 1897-45	-6		205	
Chlorpyrifos 2921-88	-2	804.93	166	
Potassium cyanide	151-50-8		161	
Cyclohexylamine 108-91	-8		154	
Chromium (VI)	18540-29-9	1,149.98	147	103
Aniline 62-	53-3		140	6
trans-1,2-Dichloroethylene 156-60	-5	704.04	136	606
Diphenylamine 122-39	-4		123	3

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Chromium III, insoluble salts	16065-83-1		118	2
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	372
Pentachlorophenol 87-86-	5	1,028.01	110	116
Selenious acid	7783-00-8		110	
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	24
Baygon 114-26	-1		106	
Tributyltin oxide	56-35-9		106	
2-Methylphenol 95-48-	7	658.66	103	138
Permethrin 52645-53	-1		103	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	43
Methyl acrylate	96-33-3		102	
Benzaldehyde 100-52	-7		101	9
Tetraethyl lead	78-00-2		99	
1,1-Biphenyl 92-52-	4		98	14
o-Chlorotoluene 95-49-	8		94	121
Carbaryl 63-25-	2	530.98	93	
Thiram 137-26	-8		93	
Sodium cyanide	143-33-9		90	
m-Phenylenediamine 108-45	-2		89	
Hexachlorobenzene 118-74	-1	838.34	88	51
Resmethrin 10453-86	-8		86	
Pentafluoroethane 354-33	-6		86	
Pyridine 110-86	-1		83	7
gamma-Hexachlorocyclohexane 58-89-	9	1,081.63	82	166
Malathion 121-75	-5		80	
Coke oven emissions	8007-45-2	807.07	77	
Amdro 67485-29	-4		77	
Diuron 330-54	-1	579.16	72	
Arochlor 1254	11097-69-1	1,182.63	70	162
Hydrazine/hydrazine sulfate	302-01-2	864.41	69	3
Bromoform 75-25-	2	643.53	68	248
N,N-Dimethylaniline 121-69	-7		68	
Folpet 133-07	-3		68	
Ethylene thiourea	96-45-7		65	
Ethyl chloride	75-00-3	693.90	64	327
Methoxychlor 72-43-	5	994.47	63	165
Bromomethane 74-83-	9		63	370
1,3-Dichlorobenzene 541-73	-1	631.41	62	388
Trichloroacetic acid	76-03-9		62	
Furfural 98-01-	1		61	
Triethylene glycol monobutyl ether	143-22-6		60	
Uranium, natural	7440-61-1	833.41	59	8
Endrin 72-20-	8	1,048.57	58	152
Dicamba 1918-00	-9		58	25

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
1,2,4-Trichlorobenzene 120-82	-1	647.30	56	353
Diethyl phthalate	84-66-2		56	316
Decabromodiphenyl ether (DBDPE)	1163-19-5		56	
p-Nitrophenol 100-02	-7	567.79	55	61
Bromochloromethane 74-97-	5		55	78
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	52
Heptachlor	76-44-8	1,072.67	54	184
2,4,6-Trinitrotoluene 118-96	-7	883.59	51	28
1,1,2-Trichloroethane 79-00-	5	724.96	51	305
1,2-Dichloropropane 78-87-	5		51	255
Mercuric chloride	7487-94-7	601.45	50	
di(2-ethylhexyl)Adipate 103-23	-1	540.20	50	
Bromodichloromethane 75-27-	4		50	369
Baythroid 68359-37	-5		50	
Dichlorvos 62-73-	7	601.64	49	
Cyanide, free	57-12-5	1,099.48	48	215
Dibromochloromethane 124-48	-1	580.59	48	283
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0		46	22
Simazine 122-34	-9		46	
Dieldrin 60-57-	1	1,150.91	45	259
Heptachlor epoxide	1024-57-3	1,027.12	45	209
1,1-Dichloroethane 75-34-	3	736.23	45	528
Aldrin 309-00	-2	1,117.22	44	181
2,4-Dinitrotoluene 121-14	-2	837.88	43	97
1,1,2,2-Tetrachloroethane 79-34-	5	782.15	43	196
3-Methylphenol 108-39	-4		43	16
Nitric Oxide	10102-43-9		43	
2-Nitropropane 79-46-	9		43	
Benzo [a] pyrene	50-32-8	1,312.45	41	703
Arochlor 1016	12674-11-2	1,014.33	41	39
Carbon disulfide	75-15-0	702.55	40	539
4-Methylphenol 106-44	-5	707.83	39	189
Hexachloroethane 67-72-	1	653.10	39	44
Anthracene 120-12	-7		38	548
Dimethylamine 124-40	-3		38	
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	1,132.49	37	54
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	288
Acenaphthene 83-32-	9	731.25	37	513
Nitrobenzene 98-95-	3		37	56
Atrazine 1912-24	-9		37	1
2-Chlorophenol 95-57-	8	599.62	36	66
Phenanthrene 85-01-	8	597.68	36	799
2,4,6-Trichlorophenol 88-06-	2	863.71	35	49
2,4-Dinitrophenol 51-28-	5	860.45	34	46

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Chrysene 218-01	-9	802.10	34	733
Benzo(a)anthracene 56-55-	3	1,057.96	33	693
Glyphosate 1071-83	-6		33	
Creosote 8001-58	-9	1,124.32	32	
Fluoranthene 206-44	-0	812.40	32	804
Hydrogen cyanide	74-90-8	803.08	32	
Pendimethalin 40487-42	-1		32	
Diquat 85-00-	7		32	
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	155
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30	177
1,2-Dibromo-3-chloropropane 96-12-	8	1,035.55	30	102
Pyrene 129-00	-0	577.95	30	788
Acephate 30560-19	-1		30	
beta-Hexachlorocyclohexane 319-85	-7	1,060.22	29	162
N-Nitrosodiphenylamine 86-30-	6	624.79	29	99
Silver cyanide	506-64-9		29	
Hexazinone 51235-04	-2		29	
Prometon 1610-18	-0		28	
Trifluralin 1582-09	-8	770.12	27	
cis-1,2-Dichloroethylene 156-59	-2	533.15	27	933
Thallium nitrate	10102-45-1		27	
Selenium sulfide	7446-34-6		27	
2,4-Dimethylphenol 105-67	-9	685.76	26	161
Cypermethrin 52315-07	-8		26	
Benzo(b)fluoranthene 205-99	-2	1,266.55	25	698
Disulfoton 298-04	-4	1,058.85	25	
Toxaphene 8001-35	-2	1,086.65	24	17
Benzo(k)fluoranthene 207-08	-9	981.26	24	583
beta-Chloronaphthalene 91-58-	7		24	46
Hexachlorophene 70-30-	4		24	
Dibenzo(a,h)anthracene 53-70-	3	1,165.88	23	470
Benzidine 92-87-	5	1,114.24	23	4
N-Nitroso-di-N-propylamine 621-64	-7	811.05	23	70
Indeno[1,2,3-cd]pyrene 193-39	-5	703.30	23	604
Caprolactam 105-60	-2		23	23
Methomyl 16752-77	-5		22	
2,4,5-Trichlorophenol 95-95-	4	604.83	21	43
Maleic anhydride	108-31-6		21	
Bis(chloroethyl)ether 111-44	-4	859.88	20	50
2,6-Dinitrotoluene 606-20	-2	555.20	20	70
Acenaphthylene 208-96	-8		20	330
1,2,3-Trichloropropane 96-18-	4		20	96
Dacthal 1861-32	-1		20	4
Copper cyanide	544-92-3		20	

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Benzo[g,h,i]perylene 191-24	-2		19	610
Fluorene 86-73-	7		19	558
1,1,1,2-Tetrachloroethane 630-20	-6		19	83
Zinc phosphide	1314-84-7		19	
Alachlor 15972-60	-8		19	
Aluminum phosphide	20859-73-8		19	
Naled 300-76	-5	602.32	18	
Dibenzofuran 132-64	-9	689.19	17	267
2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	41
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	32
Azobenzene 103-33	-3		17	3
Propargyl alcohol	107-19-7		17	
Tebuthiuron 34014-18	-1		17	
N-Nitrosodimethylamine 62-75-	9	650.71	16	28
Phosphine 7803-51	-2	559.74	16	
Benefin 1861-40	-1		16	
Metribuzin 21087-64	-9		16	
4-Aminopyridine 504-24	-5		16	
Bayleton 43121-43	-3		15	
Bis(2-chloroethoxy)methane 111-91	-1		14	40
Bis(2-chloroisopropyl) ether	108-60-1		14	37
Acetophenone 98-86-	2		14	34
Dalapon (sodium salt)	75-99-0		14	20
1-Chlorobutane 109-69	-3		14	
3,3-Dimethylbenzidine 119-93	-7		14	
Propachlor 1918-16	-7		14	
Oxadiazon 19666-30	-9		14	
Pentabromodiphenyl ether	32534-81-9		14	
Iprodione 36734-19	-7		14	
Potassium silver cyanide	506-61-6		14	
Pydrin 51630-58	-1		14	
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	34
Dinoseb 88-85-	7		13	13
Oryzalin 19044-88	-3		13	
Chlorobenzilate 510-15	-6		12	4
Pentachloronitrobenzene 82-68-	8		12	1
Ethyl carbamate	51-79-6		12	
2,6-Dimethylphenol 576-26	-1		12	
Biphenrin 82657-04	-3		12	
Cacodylic acid	75-60-5	922.06	11	
Dimethoate 60-51-	5	602.61	11	
Arsine 7784-42	-1	602.42	11	
Quinone 106-51	-4		11	
Picloram 1918-02	-1		10	9

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	
Captan 133-06	-2		10	
2-Chloroacetophenone 532-27	-4		10	
Metalaxyl 57837-19	-1		10	
Metolachlor 51218-45	-2		9	
Zinc cyanide	557-21-1		9	
Aluminum sulfamate	7773-06-0		9	
Warfarin 81-81-	2		9	
Parathion 56-38-	2	784.14	8	
p-Chloroaniline 106-47	-8		8	62
Chlorpropham 101-21	-3		8	
Endothall 145-73	-3		8	
Paraquat 1910-42	-5		8	
Pronamide 23950-58	-5		8	
Fluridone 59756-60	-4		8	
2,4-Diaminotoluene 95-80-	7		8	
Tetrachlorovinphos 961-11	-5		8	
1,3,5-Trinitrobenzene 99-35-	4	820.17	7	5
Methyl parathion	298-00-0	545.83	7	
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	37
Benzyl chloride	100-44-7		7	4
Sodium diethyldithiocarbamate	148-18-5		7	
Vernam 1929-77	-7		7	
Strychnine 57-24-	9		7	
Paclobutrazol 76738-62	-0		7	
Ethion 563-12	-2	834.03	6	
Chloramben 133-90	-4		6	13
2,3,4,6-Tetrachlorophenol 58-90-	2		6	7
Maneb 12427-38	-2		6	
Thallic oxide	1314-32-5		6	
Merphos 150-50	-5		6	
Benomyl 17804-35	-2		6	
Fenamiphos 22224-92	-6		6	
Cyanogen 460-19	-5		6	
Propylene glycol monoethyl ether	52125-53-8		6	
Barium cyanide	542-62-1		6	
Tralomethrin 66841-25	-6		6	
Ally 74223-64	-6		6	
Ametryn 834-12	-8		6	
Rotenone 83-79-	4		6	
Butylate 2008-41	-5	578.43	5	
Ethyleneimine 151-56	-4		5	
Molinate 2212-67	-1		5	
Oxamyl 23135-22	-0		5	

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Carboxin 5234-68	-4		5	
Nitroguanidine 556-88	-7		5	
Phosmet 732-11	-6		5	
technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	
Pentachlorobenzene 608-93	-5	753.58	4	1
Allyl chloride	107-05-1		4	
N-Nitrosodiethanolamine 1116-54	-7		4	
Adiponitrile 111-69	-3		4	
Carbofuran 1563-66	-2		4	
Cyanazine 21725-46	-2		4	
Tetraethyldithiopyrophosphate 3689-24	-5		4	
Oxyfluorfen 42874-03	-3		4	
Carbonyl sulfide	463-58-1		4	
Vinclozolin 50471-44	-8		4	
Thallium acetate	563-68-8		4	
Propiconazole 60207-90	-1		4	
Avermectin B1	65195-55-3		4	
Prometryn 7287-19	-6		4	
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	
Dimethyl sulfate	77-78-1		4	
Methyl chlorocarbonate	79-22-1		4	
Isoxaben 82558-50	-7		4	
1,2,4,5-Tetrachlorobenzene 95-94-	3		4	
Endosulfan 115-29	-7	1,004.65	3	
Dodine 2439-10	-3		3	
Aldicarb 116-06	-3		3	
Zineb 12122-67	-7		3	
Propazine 139-40	-2		3	
Aldicarb sulfone	1646-88-4		3	
Bromoxynil octanoate	1689-99-2		3	
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	
Norflurazon 27314-13	-2		3	
Amitraz 33089-61	-1		3	
Terbacil 5902-51	-2		3	
Nonabromodiphenyl ether	63936-56-1		3	
Sethoxydim 74051-80	-2		3	
Terbutryn 886-50	-0		3	
Fonofos 944-22	-9		3	
3,4-Dimethylphenol 95-65-	8		3	
Diphenamid 957-51	-7		3	
Benzotrichloride 98-07-	7		3	
Merphos oxide	78-48-8	797.88	2	
Nitrate 14797-55	-8	610.66	2	
Methacrylonitrile 126-98	-7		2	2

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
N-Nitroso-di-n-butylamine 924-16	-3		2	2
1,4-Dibromobenzene 106-37	-6		2	
Dimethyl terephthalate (DMT)	120-61-6		2	
Aramite 140-57	-8		2	
Bidrin 141-66	-2		2	
Napropamide 15299-99	-7		2	
Nitrapyrin 1929-82	-4		2	
p,p'-Dibromodiphenyl ether	2050-47-7		2	
Octabromodiphenyl ether	32536-52-0		2	
Calcium cyanide	592-01-8		2	
1,2,4-Tribromobenzene 615-54	-3		2	
Acifluorfen, sodium	62476-59-9		2	
Sodium fluoroacetate	62-74-8		2	
Chlorsulfuron 64902-72	-3		2	
Flutolanil 66332-96	-5		2	
Fluvalinate 69409-94	-5		2	
Imazaquin 81335-37	-7		2	
1,2-Diphenylhydrazine 122-66	-7	713.90	1	
Chlordane (technical)	12789-03-6	602.62	1	
N-Nitrosodiethylamine 55-18-	5		1	3
N-Nitroso-N-methylethylamine 10595-95	-6		1	1
N-Nitrosopyrrolidine 930-55	-2		1	1
Allyl alcohol	107-18-6		1	
Furan 110-00	-9		1	
Maleic hydrazide	123-33-1		1	
Fluometuron 2164-17	-2		1	
Triallate 2303-17	-5		1	
Thiobencarb 28249-77	-6		1	
Linuron 330-55	-2		1	
Isopropalin 33820-53	-0		1	
t-Butyl chloride	507-20-0		1	
Diethyl sulfate	64-67-5		1	
Thallium carbonate	6533-73-9		1	
Thallium (I) sulfate	7446-18-6		1	
Bromotrichloromethane 75-62-	7		1	
Thallium chloride	7791-12-0		1	
Systhane 88671-89	-0		1	
Hexachlorobutadiene 87-68-	3	1,129.63		202
Radium 226,228	7440-14-4	828.07		
2,4-Dichlorophenol 120-83	-2	616.45		73
Fluorine, soluble fluoride	7782-41-4	613.28		
Nitrite 14797-65	-0	612.64		
Formaldehyde 50-00-	0	599.64		1
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7			73

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3			72
o-Dinitrobenzene 528-29	-0			46
Dibromodichloromethane 594-18	-3			2
Mirex 2385-85	-5			1
Captafol 2425-06	-1			
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7			
Express 101200-4	8-0			
Methamidophos 10265-92	-6			
Monchloramine 10599-90	-3			
Chloromethyl methyl ether	107-30-2			
Nickel subsulfide	12035-72-2			
Thallium selenite	12039-52-0			
Propham 122-42	-9			
p-Chlorophenyl methyl sulfide	123-09-1			
4,6-Dinitro-o-cyclohexyl phenol	131-89-5			
Nickel carbonyl	13463-39-3			
Quinalphos 13593-03	-8			
Phenmedipham 13684-63	-4			
Diisopropyl methylphosphonate	1445-75-6			
Alar 1596-84	-5			
Ethephon 16672-87	-0			
Bromoxynil 1689-84	-5			
Isopropyl methyl phosphonic acid	1832-54-8			
Phosalone 2310-17	-0			
Propargite 2312-35	-8			
Thiophanate-methyl 23564-05	-8			
Mepiquat chloride	24307-26-4			
Pentachlorocyclopentadiene 25329-35	-5			
Pirimiphos-methyl 29232-93	-7			
Asulam 3337-71	-1			
Diazomethane 334-88	-3			
Acetochlor 34256-82	-1			
Diflubenzuron 35367-38	-5			
Imazalil 35554-44	-0			
Hexabromodiphenyl ether	36483-60-0			
Fosetyl-al 39148-24	-8			
Danitol 39515-41	-8			
Tetrabromodiphenyl ether	40088-47-9			
Difenzoquat 43222-48	-6			
Tribromodiphenyl ether	49690-94-0			
Chlorine cyanide	506-77-4			
Bis(chloromethyl) ether	542-88-1			
Carbosulfan 55285-14	-8			
Dimethipin 55290-64	-7			

TABLE A-5b. HIMRS Product Identities: IRIS Chemicals of Interest Ranked by Their Association with HIMRS Product Identities (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HIMRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
beta-Propiolactone 57-57-	8			
Tridiphan 58138-08	-2			
Vinyl bromide	593-60-2			
1,1,2-Trichloropropane 598-77	-6			
Furmecyclo 60568-05	-0			
Methyl isocyanate	624-83-9			
Selenourea 630-10	-4			
Cyromazine 66215-27	-8			
Prochloraz 67747-09	-5			
Cyhalothrin/karate 68085-85	-8			
Haloxyp-methyl 69806-40	-2			
Propanil 709-98	-8			
Fomazaf 72178-02	-0			
Apollo 74115-24	-5			
Propyleneimine 75-55-	8			
Glycidaldehyde 765-34	-4			
Assure 76578-14	-8			
Glufosinate-ammonium 77182-82	-2			
Trichlorocyclopentadiene 77323-84	-3			
Lactofen 77501-63	-4			
Savey 78587-05	-0			
Harmony 79277-27	-3			
Demeton 8065-48	-3			
Pursuit 81335-77	-5			
Triasulfuron 82097-50	-5			
Londax 83055-99	-6			
Ethylphthalyl ethylglycolate (EPEG)	84-72-0			
Phthalic anhydride	85-44-9			
Nustar 85509-19	-9			
Hexabromobenzene 87-82-	1			
ortho-Anisidine 90-04-	0			
Chlorimuron-ethyl 90982-32	-4			
p-Chlorophenyl methyl sulfoxide	934-73-6			
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5			
Methidathion 950-37	-8			
p-Chlorophenyl methyl sulfone	98-57-7			

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TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,448
Manganese 7439-96	-5	807.90	7,411	1,292
Nickel 7440-02	-0	1,005.40	7,850	1,210
Copper 7440-50	-8	804.86	6,993	1,208
Dichloromethane 75-09-	2	888.96	4,136	1,196
Cadmium 7440-43	-9	1,324.22	1,970	1,191
Trichloroethylene 79-01-	6	1,154.73	568	1,141
Selenium and compounds	7782-49-2	778.98	296	1,097
Naphthalene 91-20-	3	896.67	1,635	1,064
Ethylbenzene	100-41-4	832.13	10,696	1,059
Mercury, elemental	7439-97-6	1,504.69	1,588	981
Beryllium and compounds	7440-41-7	1,046.12	379	948
cis-1,2-Dichloroethylene 156-59	-2	533.15	27	933
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	851
Tetrachloroethylene 127-18	-4	1,080.43	929	846
Silver 7440-22	-4	612.19	2,491	816
Antimony 7440-36	-0	605.37	2,105	816
Fluoranthene 206-44	-0	812.40	32	804
Phenanthrene 85-01-	8	597.68	36	799
Pyrene 129-00	-0	577.95	30	788
Chrysene 218-01	-9	802.10	34	733
Benzo [a] pyrene	50-32-8	1,312.45	41	703
Benzo(b)fluoranthene 205-99	-2	1,266.55	25	698
Benzo(a)anthracene 56-55-	3	1,057.96	33	693
Benzo[g,h,i]perylene 191-24	-2		19	610
trans-1,2-Dichloroethylene 156-60	-5	704.04	136	606
Indeno[1,2,3-cd]pyrene 193-39	-5	703.30	23	604
Cumene 98-82-	8		1,632	599
Benzo(k)fluoranthene 207-08	-9	981.26	24	583
Fluorene 86-73-	7		19	558
Chlorobenzene 108-90	-7	819.69	213	551
Anthracene 120-12	-7		38	548
1,2-Dichloroethane 107-06	-2	863.99	440	546
Carbon disulfide	75-15-0	702.55	40	539
1,1-Dichloroethane 75-34-	3	736.23	45	528
1,4-Dichlorobenzene 106-46	-7	737.32	246	516
Acenaphthene 83-32-	9	731.25	37	513
1,2-Dichlorobenzene 95-50-	1	704.91	249	473
Dibenzo(a,h)anthracene 53-70-	3	1,165.88	23	470
Molybdenum 7439-98	-7		3,186	465
Methyl tert-butyl ether	1634-04-4		742	436

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Dibutyl phthalate	84-74-2	1,007.49	1,132	420
1,3-Dichlorobenzene 541-73	-1	631.41	62	388
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	372
Bromomethane 74-83-	9		63	370
Bromodichloromethane 75-27-	4		50	369
1,1,1-Trichloroethane 71-55-	6	833.81	3,552	355
1,2,4-Trichlorobenzene 120-82	-1	647.30	56	353
Trichlorofluoromethane 75-69-	4		535	353
Acenaphthylene 208-96	-8		20	330
Carbon tetrachloride	56-23-5	1,023.32	292	329
Ethyl chloride	75-00-3	693.90	64	327
Diethyl phthalate	84-66-2		56	316
Styrene 100-42	-5	532.70	1,646	308
1,1,2-Trichloroethane 79-00-	5	724.96	51	305
Dichlorodifluoromethane 75-71-	8		953	293
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	288
Dibromochloromethane 124-48	-1	580.59	48	283
Dibenzofuran 132-64	-9	689.19	17	267
Dieldrin 60-57-	1	1,150.91	45	259
1,2-Dichloropropane 78-87-	5		51	255
Butyl benzyl phthalate	85-68-7	659.38	1,070	249
Bromoform 75-25-	2	643.53	68	248
Cyanide, free	57-12-5	1,099.48	48	215
Heptachlor epoxide	1024-57-3	1,027.12	45	209
Hexachlorobutadiene 87-68-	3	1,129.63		202
1,1,2,2-Tetrachloroethane 79-34-	5	782.15	43	196
4-Methylphenol 106-44	-5	707.83	39	189
Heptachlor	76-44-8	1,072.67	54	184
Aldrin 309-00	-2	1,117.22	44	181
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30	177
gamma-Hexachlorocyclohexane 58-89-	9	1,081.63	82	166
Methoxychlor 72-43-	5	994.47	63	165
Arochlor 1254	11097-69-1	1,182.63	70	162
beta-Hexachlorocyclohexane 319-85	-7	1,060.22	29	162
2,4-Dimethylphenol 105-67	-9	685.76	26	161
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	155
Endrin 72-20-	8	1,048.57	58	152
2-Methylphenol 95-48-	7	658.66	103	138
o-Chlorotoluene 95-49-	8		94	121
Pentachlorophenol 87-86-	5	1,028.01	110	116
Chromium (VI)	18540-29-9	1,149.98	147	103
1,2-Dibromo-3-chloropropane 96-12-	8	1,035.55	30	102
N-Nitrosodiphenylamine 86-30-	6	624.79	29	99
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	98

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
2,4-Dinitrotoluene 121-14	-2	837.88	43	97
1,2,3-Trichloropropane 96-18-	4		20	96
1,1,1,2-Tetrachloroethane 630-20	-6		19	83
Bromochloromethane 74-97-	5		55	78
2,4-Dichlorophenol 120-83	-2	616.45		73
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7			73
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3			72
N-Nitroso-di-N-propylamine 621-64	-7	811.05	23	70
2,6-Dinitrotoluene 606-20	-2	555.20	20	70
2-Chlorophenol 95-57-	8	599.62	36	66
Isophorone 78-59-	1		237	63
p-Chloroaniline 106-47	-8		8	62
p-Nitrophenol 100-02	-7	567.79	55	61
Nitrobenzene 98-95-	3		37	56
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	1,132.49	37	54
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	52
Hexachlorobenzene 118-74	-1	838.34	88	51
1,4-Dioxane 123-91	-1	616.29	623	51
Bis(chloroethyl)ether 111-44	-4	859.88	20	50
2,4,6-Trichlorophenol 88-06-	2	863.71	35	49
2,4-Dinitrophenol 51-28-	5	860.45	34	46
beta-Chloronaphthalene 91-58-	7		24	46
o-Dinitrobenzene 528-29	-0			46
Hexachloroethane 67-72-	1	653.10	39	44
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	43
2,4,5-Trichlorophenol 95-95-	4	604.83	21	43
2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	41
Bis(2-chloroethoxy)methane 111-91	-1		14	40
Arochlor 1016	12674-11-2	1,014.33	41	39
Bis(2-chloroisopropyl) ether	108-60-1		14	37
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	37
Acetophenone 98-86-	2		14	34
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	34
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	32
Vinyl acetate	108-05-4		953	31
2,4,6-Trinitrotoluene 118-96	-7	883.59	51	28
N-Nitrosodimethylamine 62-75-	9	650.71	16	28
Dicamba 1918-00	-9		58	25
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	24
Caprolactam 105-60	-2		23	23
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0		46	22
Dalapon (sodium salt)	75-99-0		14	20
n-Heptane 142-82	-5		2,116	19
Toxaphene 8001-35	-2	1,086.65	24	17

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
3-Methylphenol 108-39	-4		43	16
1,1-Biphenyl 92-52-	4		98	14
Dinoseb 88-85-	7		13	13
Chloramben 133-90	-4		6	13
Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	10
Acrylonitrile 107-13	-1	528.28	265	10
Ethylene glycol	107-21-1		10,234	9
Benzaldehyde 100-52	-7		101	9
Picloram 1918-02	-1		10	9
Uranium, natural	7440-61-1	833.41	59	8
Ethyl acetate	141-78-6		4,385	8
Vanadium pentoxide	1314-62-1		587	8
Pyridine 110-86	-1		83	7
2,3,4,6-Tetrachlorophenol 58-90-	2		6	7
Aniline 62-53-3			140	6
1,3,5-Trinitrobenzene 99-35-	4	820.17	7	5
Benzidine 92-87-	5	1,114.24	23	4
Dacthal 1861-32	-1		20	4
Chlorobenzilate 510-15	-6		12	4
Benzyl chloride	100-44-7		7	4
Hydrazine/hydrazine sulfate	302-01-2	864.41	69	3
Acetaldehyde 75-07-	0		323	3
Diphenylamine 122-39	-4		123	3
Azobenzene 103-33	-3		17	3
N-Nitrosodiethylamine 55-18-	5		1	3
Formic acid	64-18-6		271	2
Chromium III, insoluble salts	16065-83-1		118	2
Methacrylonitrile 126-98	-7		2	2
N-Nitroso-di-n-butylamine 924-16	-3		2	2
Dibromodichloromethane 594-18	-3			2
Chlorine 7782-50	-5	840.37	241	1
Pentachlorobenzene 608-93	-5	753.58	4	1
Formaldehyde 50-00-	0	599.64		1
Methanol 67-56-	1		7,659	1
Chlorodifluoromethane 75-45-	6		774	1
Atrazine 1912-24	-9		37	1
Pentachloronitrobenzene 82-68-	8		12	1
N-Nitroso-N-methylethylamine 10595-95	-6		1	1
N-Nitrosopyrrolidine 930-55	-2		1	1
Mirex 2385-85	-5			1
White phosphorus	7723-14-0	1,144.77	1,054	
Creosote 8001-58	-9	1,124.32	32	
Disulfoton 298-04	-4	1,058.85	25	
Endosulfan 115-29	-7	1,004.65	3	

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Cacodylic acid	75-60-5	922.06	11	
Asbestos 1332-21	-4	841.54	475	
Ethion 563-12	-2	834.03	6	
Radium 226,228	7440-14-4	828.07		
Coke oven emissions	8007-45-2	807.07	77	
Chlorpyrifos 2921-88	-2	804.93	166	
Hydrogen cyanide	74-90-8	803.08	32	
Merphos oxide	78-48-8	797.88	2	
Parathion 56-38-	2	784.14	8	
technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	
Trifluralin 1582-09	-8	770.12	27	
Ammonia 7664-41	-7	745.55	1,453	
1,2-Diphenylhydrazine 122-66	-7	713.90	1	
Fluorine, soluble fluoride	7782-41-4	613.28		
Nitrite 14797-65	-0	612.64		
Nitrate 14797-55	-8	610.66	2	
Tricresol 1319-77	-3	602.74	272	
Chlordane (technical)	12789-03-6	602.62	1	
Dimethoate 60-51-	5	602.61	11	
Arsine 7784-42	-1	602.42	11	
Naled 300-76	-5	602.32	18	
Dichlorvos 62-73-	7	601.64	49	
Mercuric chloride	7487-94-7	601.45	50	
Diuron 330-54	-1	579.16	72	
Butylate 2008-41	-5	578.43	5	
N,N-Dimethylformamide 68-12-	2	578.23	363	
Phosphine 7803-51	-2	559.74	16	
Methyl parathion	298-00-0	545.83	7	
di(2-ethylhexyl)Adipate 103-23	-1	540.20	50	
Carbaryl 63-25-	2	530.98	93	
n-Butanol 71-36-	3		6,253	
Propylene glycol	57-55-6		4,063	
Cyclohexanone 108-94	-1		2,829	
Hydrogen chloride	7647-01-0		2,670	
Phosphoric acid	7664-38-2		2,437	
Isobutyl alcohol	78-83-1		2,432	
Hydroquinone 123-31	-9		2,337	
1,6-Hexamethylene diisocyanate	822-06-0		2,283	
Propylene glycol monomethyl ether	107-98-2		2,048	
d-Limonene 5989-27	-5		1,488	
Sodium azide	26628-22-8		1,100	
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	
Antimony trioxide	1309-64-4		906	
1,1,1,2-Tetrafluoroethane 811-97	-2		775	

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
2-Ethoxyethanol 110-80	-5		688	
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	
Epichlorohydrin 106-89	-8		559	
2-Methoxyethanol 109-86	-4		559	
Bisphenol A	80-05-7		482	
Triethylamine 121-44	-8		459	
Ethylene diamine	107-15-3		377	
Ammonium acetate	631-61-8		368	
Acrylamide 79-06-	1		303	
1,2-Epoxybutane 106-88	-7		300	
Propylene oxide	75-56-9		246	
Phenylmercuric acetate	62-38-4		240	
Acrylic acid	79-10-7		234	
Chlorothalonil 1897-45	-6		205	
Potassium cyanide	151-50-8		161	
Cyclohexylamine 108-91	-8		154	
Selenious acid	7783-00-8		110	
Baygon 114-26	-1		106	
Tributyltin oxide	56-35-9		106	
Permethrin 52645-53	-1		103	
Methyl acrylate	96-33-3		102	
Tetraethyl lead	78-00-2		99	
Thiram 137-26	-8		93	
Sodium cyanide	143-33-9		90	
m-Phenylenediamine 108-45	-2		89	
Resmethrin 10453-86	-8		86	
Pentafluoroethane 354-33	-6		86	
Malathion 121-75	-5		80	
Amdro 67485-29	-4		77	
N,N-Dimethylaniline 121-69	-7		68	
Folpet 133-07	-3		68	
Ethylene thiourea	96-45-7		65	
Trichloroacetic acid	76-03-9		62	
Furfural 98-01-	1		61	
Triethylene glycol monobutyl ether	143-22-6		60	
Decabromodiphenyl ether (DBDPE)	1163-19-5		56	
Baythroid 68359-37	-5		50	
Simazine 122-34	-9		46	
Nitric Oxide	10102-43-9		43	
2-Nitropropane 79-46-	9		43	
Dimethylamine 124-40	-3		38	
Glyphosate 1071-83	-6		33	
Pendimethalin 40487-42	-1		32	
Diquat 85-00-	7		32	

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Acephate 30560-19	-1		30	
Silver cyanide	506-64-9		29	
Hexazinone 51235-04	-2		29	
Prometon 1610-18	-0		28	
Thallium nitrate	10102-45-1		27	
Selenium sulfide	7446-34-6		27	
Cypermethrin 52315-07	-8		26	
Hexachlorophene 70-30-	4		24	
Methomyl 16752-77	-5		22	
Maleic anhydride	108-31-6		21	
Copper cyanide	544-92-3		20	
Zinc phosphide	1314-84-7		19	
Alachlor 15972-60	-8		19	
Aluminum phosphide	20859-73-8		19	
Propargyl alcohol	107-19-7		17	
Tebuthiuron 34014-18	-1		17	
Benefin 1861-40	-1		16	
Metribuzin 21087-64	-9		16	
4-Aminopyridine 504-24	-5		16	
Bayleton 43121-43	-3		15	
1-Chlorobutane 109-69	-3		14	
3,3-Dimethylbenzidine 119-93	-7		14	
Propachlor 1918-16	-7		14	
Oxadiazon 19666-30	-9		14	
Pentabromodiphenyl ether	32534-81-9		14	
Iprodione 36734-19	-7		14	
Potassium silver cyanide	506-61-6		14	
Pydrin 51630-58	-1		14	
Oryzalin 19044-88	-3		13	
Ethyl carbamate	51-79-6		12	
2,6-Dimethylphenol 576-26	-1		12	
Biphenrin 82657-04	-3		12	
Quinone 106-51	-4		11	
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	
Captan 133-06	-2		10	
2-Chloroacetophenone 532-27	-4		10	
Metalaxyl 57837-19	-1		10	
Metolachlor 51218-45	-2		9	
Zinc cyanide	557-21-1		9	
Aluminum sulfamate	7773-06-0		9	
Warfarin 81-81-	2		9	
Chlorpropham 101-21	-3		8	
Endothall 145-73	-3		8	
Paraquat 1910-42	-5		8	

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Pronamide 23950-58	-5		8	
Fluridone 59756-60	-4		8	
2,4-Diaminotoluene 95-80-	7		8	
Tetrachlorovinphos 961-11	-5		8	
Sodium diethyldithiocarbamate	148-18-5		7	
Vernam 1929-77	-7		7	
Strychnine 57-24-	9		7	
Paclobutrazol 76738-62	-0		7	
Maneb 12427-38	-2		6	
Thallic oxide	1314-32-5		6	
Merphos 150-50	-5		6	
Benomyl 17804-35	-2		6	
Fenamiphos 22224-92	-6		6	
Cyanogen 460-19	-5		6	
Propylene glycol monoethyl ether	52125-53-8		6	
Barium cyanide	542-62-1		6	
Tralomethrin 66841-25	-6		6	
Ally 74223-64	-6		6	
Ametryn 834-12	-8		6	
Rotenone 83-79-	4		6	
Ethyleneimine 151-56	-4		5	
Molinate 2212-67	-1		5	
Oxamyl 23135-22	-0		5	
Carboxin 5234-68	-4		5	
Nitroguanidine 556-88	-7		5	
Phosmet 732-11	-6		5	
Allyl chloride	107-05-1		4	
N-Nitrosodiethanolamine 1116-54	-7		4	
Adiponitrile 111-69	-3		4	
Carbofuran 1563-66	-2		4	
Cyanazine 21725-46	-2		4	
Tetraethyldithiopyrophosphate 3689-24	-5		4	
Oxyfluorfen 42874-03	-3		4	
Carbonyl sulfide	463-58-1		4	
Vinclozolin 50471-44	-8		4	
Thallium acetate	563-68-8		4	
Propiconazole 60207-90	-1		4	
Avermectin B1	65195-55-3		4	
Prometryn 7287-19	-6		4	
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	
Dimethyl sulfate	77-78-1		4	
Methyl chlorocarbonate	79-22-1		4	
Isoxaben 82558-50	-7		4	
1,2,4,5-Tetrachlorobenzene 95-94-	3		4	

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Dodine 2439-10	-3		3	
Aldicarb 116-06	-3		3	
Zineb 12122-67	-7		3	
Propazine 139-40	-2		3	
Aldicarb sulfone	1646-88-4		3	
Bromoxynil octanoate	1689-99-2		3	
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	
Norflurazon 27314-13	-2		3	
Amitraz 33089-61	-1		3	
Terbacil 5902-51	-2		3	
Nonabromodiphenyl ether	63936-56-1		3	
Sethoxydim 74051-80	-2		3	
Terbutryn 886-50	-0		3	
Fonofos 944-22	-9		3	
3,4-Dimethylphenol 95-65-	8		3	
Diphenamid 957-51	-7		3	
Benzotrichloride 98-07-	7		3	
1,4-Dibromobenzene 106-37	-6		2	
Dimethyl terephthalate (DMT)	120-61-6		2	
Aramite 140-57	-8		2	
Bidrin 141-66	-2		2	
Napropamide 15299-99	-7		2	
Nitrapyrin 1929-82	-4		2	
p,p'-Dibromodiphenyl ether	2050-47-7		2	
Octabromodiphenyl ether	32536-52-0		2	
Calcium cyanide	592-01-8		2	
1,2,4-Tribromobenzene 615-54	-3		2	
Acifluorfen, sodium	62476-59-9		2	
Sodium fluoroacetate	62-74-8		2	
Chlorsulfuron 64902-72	-3		2	
Flutolanil 66332-96	-5		2	
Fluvalinate 69409-94	-5		2	
Imazaquin 81335-37	-7		2	
Allyl alcohol	107-18-6		1	
Furan 110-00	-9		1	
Maleic hydrazide	123-33-1		1	
Fluometuron 2164-17	-2		1	
Triallate 2303-17	-5		1	
Thiobencarb 28249-77	-6		1	
Linuron 330-55	-2		1	
Isopropalin 33820-53	-0		1	
t-Butyl chloride	507-20-0		1	
Diethyl sulfate	64-67-5		1	
Thallium carbonate	6533-73-9		1	

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
Thallium (I) sulfate	7446-18-6		1	
Bromotrichloromethane 75-62-	7		1	
Thallium chloride	7791-12-0		1	
Systhane 88671-89	-0		1	
Captafol 2425-06	-1			
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7			
Express 101200-4	8-0			
Methamidophos 10265-92	-6			
Monchloramine 10599-90	-3			
Chloromethyl methyl ether	107-30-2			
Nickel subsulfide	12035-72-2			
Thallium selenite	12039-52-0			
Propham 122-42	-9			
p-Chlorophenyl methyl sulfide	123-09-1			
4,6-Dinitro-o-cyclohexyl phenol	131-89-5			
Nickel carbonyl	13463-39-3			
Quinalphos 13593-03	-8			
Phenmedipham 13684-63	-4			
Diisopropyl methylphosphonate	1445-75-6			
Alar 1596-84	-5			
Ethephon 16672-87	-0			
Bromoxynil 1689-84	-5			
Isopropyl methyl phosphonic acid	1832-54-8			
Phosolone 2310-17	-0			
Propargite 2312-35	-8			
Thiophanate-methyl 23564-05	-8			
Mepiquat chloride	24307-26-4			
Pentachlorocyclopentadiene 25329-35	-5			
Pirimiphos-methyl 29232-93	-7			
Asulam 3337-71	-1			
Diazomethane 334-88	-3			
Acetochlor 34256-82	-1			
Diflubenzuron 35367-38	-5			
Imazalil 35554-44	-0			
Hexabromodiphenyl ether	36483-60-0			
Fosetyl-al 39148-24	-8			
Danitol 39515-41	-8			
Tetrabromodiphenyl ether	40088-47-9			
Difenzoquat 43222-48	-6			
Tribromodiphenyl ether	49690-94-0			
Chlorine cyanide	506-77-4			
Bis(chloromethyl) ether	542-88-1			
Carbosulfan 55285-14	-8			
Dimethipin 55290-64	-7			

TABLE A-5c. Air Force ERP Sites: IRIS Chemicals of Interest Ranked by the Number or Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects
Maximum Possible Number		1,800.00	151,413	6,675
beta-Propiolactone 57-57-	8			
Tridiphan 58138-08	-2			
Vinyl bromide	593-60-2			
1,1,2-Trichloropropane 598-77	-6			
Furmecyclo 60568-05	-0			
Methyl isocyanate	624-83-9			
Selenourea 630-10	-4			
Cyromazine 66215-27	-8			
Prochloraz 67747-09	-5			
Cyhalothrin/karate 68085-85	-8			
Haloxyp-methyl 69806-40	-2			
Propanil 709-98	-8			
Fomazaf 72178-02	-0			
Apollo 74115-24	-5			
Propyleneimine 75-55-	8			
Glycidaldehyde 765-34	-4			
Assure 76578-14	-8			
Glufosinate-ammonium 77182-82	-2			
Trichlorocyclopentadiene 77323-84	-3			
Lactofen 77501-63	-4			
Savey 78587-05	-0			
Harmony 79277-27	-3			
Demeton 8065-48	-3			
Pursuit 81335-77	-5			
Triasulfuron 82097-50	-5			
Londax 83055-99	-6			
Ethylphthalyl ethylglycolate (EPEG)	84-72-0			
Phthalic anhydride	85-44-9			
Nustar 85509-19	-9			
Hexabromobenzene 87-82-	1			
ortho-Anisidine 90-04-	0			
Chlorimuron-ethyl 90982-32	-4			
p-Chlorophenyl methyl sulfoxide	934-73-6			
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5			
Methidathion 950-37	-8			
p-Chlorophenyl methyl sulfone	98-57-7			

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TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Ethylbenzene	100-41-4	832.13	10,696	1,059	4,975	10,000	7,314	22,289
Nickel	7440-02-0	1,005.40	7,850	1,210	6,011	7,339	8,356	21,707
Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,448	10,000	1,570	10,000	21,570
Manganese	7439-96-5	807.90	7,411	1,292	4,830	6,929	8,923	20,682
Copper	7440-50-8	804.86	6,993	1,208	4,812	6,538	8,343	19,693
Cadmium	7440-43-9	1,324.22	1,970	1,191	7,917	1,842	8,225	17,984
Dichloromethane	75-09-2	888.96	4,136	1,196	5,315	3,867	8,260	17,441
Mercury, elemental	7439-97-6	1,504.69	1,588	981	8,996	1,485	6,775	17,256
Trichloroethylene	79-01-6	1,154.73	568	1,141	6,904	531	7,880	15,315
Naphthalene	91-20-3	896.67	1,635	1,064	5,361	1,529	7,348	14,238
Tetrachloroethylene	127-18-4	1,080.43	929	846	6,460	869	5,843	13,171
Beryllium and compounds	7440-41-7	1,046.12	379	948	6,255	354	6,547	13,156
Benzo [a] pyrene	50-32-8	1,312.45	41	703	7,847	38	4,855	12,740
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	851	5,495	1,226	5,877	12,597
Selenium and compounds	7782-49-2	778.98	296	1,097	4,657	277	7,576	12,510
Benzo(b)fluoranthene	205-99-2	1,266.55	25	698	7,572	23	4,820	12,416
Silver	7440-22-4	612.19	2,491	816	3,660	2,329	5,635	11,624
Antimony	7440-36-0	605.37	2,105	816	3,619	1,968	5,635	11,223
Benzo(a)anthracene	56-55-3	1,057.96	33	693	6,325	31	4,786	11,142
Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	10	8,166	2,609	69	10,844
1,1,1-Trichloroethane	71-55-6	833.81	3,552	355	4,985	3,321	2,452	10,758
Fluoranthene	206-44-0	812.40	32	804	4,857	30	5,552	10,440
Dibenzo(a,h)anthracene	53-70-3	1,165.88	23	470	6,971	22	3,246	10,238
Dibutyl phthalate	84-74-2	1,007.49	1,132	420	6,024	1,058	2,901	9,982
Benzo(k)fluoranthene	207-08-9	981.26	24	583	5,867	22	4,026	9,915
Chrysene	218-01-9	802.10	34	733	4,796	32	5,062	9,890
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	372	7,135	107	2,569	9,810
cis-1,2-Dichloroethylene	156-59-2	533.15	27	933	3,188	25	6,443	9,656
Ethylene glycol	107-21-1		10,234	9		9,568	62	9,630
1,2-Dichloroethane	107-06-2	863.99	440	546	5,166	411	3,771	9,348
Phenanthrene	85-01-8	597.68	36	799	3,573	34	5,518	9,125
Pyrene	129-00-0	577.95	30	788	3,455	28	5,442	8,925
Chlorobenzene	108-90-7	819.69	213	551	4,901	199	3,805	8,905
Dieldrin	60-57-1	1,150.91	45	259	6,881	42	1,789	8,712
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	288	6,665	35	1,989	8,689
Carbon tetrachloride	56-23-5	1,023.32	292	329	6,118	273	2,272	8,663
trans-1,2-Dichloroethylene	156-60-5	704.04	136	606	4,209	127	4,185	8,522
Indeno[1,2,3-cd]pyrene	193-39-5	703.30	23	604	4,205	22	4,171	8,398
Aroclor 1254	11097-69-1	1,182.63	70	162	7,071	65	1,119	8,255
1,4-Dichlorobenzene	106-46-7	737.32	246	516	4,408	230	3,564	8,202

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Hexachlorobutadiene 87-68-	3	1,129.63		202	6,754		1,395	8,149
Cyanide, free	57-12-5	1,099.48	48	215	6,574	45	1,485	8,103
1,1-Dichloroethane	75-34-3	736.23	45	528	4,402	42	3,646	8,090
Aldrin	309-00-2	1,117.22	44	181	6,680	41	1,250	7,971
Carbon disulfide	75-15-0	702.55	40	539	4,200	37	3,722	7,960
Acenaphthene	83-32-9	731.25	37	513	4,372	35	3,543	7,949
White phosphorus	7723-14-0	1,144.77	1,054		6,844	985		7,830
Heptachlor	76-44-8	1,072.67	54	184	6,413	50	1,271	7,734
Chromium (VI)	18540-29-9	1,149.98	147	103	6,875	137	711	7,724
1,2-Dichlorobenzene	95-50-1	704.91	249	473	4,215	233	3,267	7,714
gamma-Hexachlorocyclohexane	58-89-9	1,081.63	82	166	6,467	77	1,146	7,690
Heptachlor epoxide	1024-57-3	1,027.12	45	209	6,141	42	1,443	7,626
beta-Hexachlorocyclohexane	319-85-7	1,060.22	29	162	6,339	27	1,119	7,485
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30	177	6,208	28	1,222	7,458
Endrin	72-20-8	1,048.57	58	152	6,269	54	1,050	7,373
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	1,132.49	37	54	6,771	35	373	7,178
Methanol	67-56-1		7,659	1		7,161	7	7,168
Methoxychlor	72-43-5	994.47	63	165	5,946	59	1,140	7,144
Pentachlorophenol	87-86-5	1,028.01	110	116	6,146	103	801	7,050
1,2-Dibromo-3-chloropropane	96-12-8	1,035.55	30	102	6,191	28	704	6,924
Styrene	100-42-5	532.70	1,646	308	3,185	1,539	2,127	6,851
Creosote	8001-58-9	1,124.32	32		6,722	30		6,752
Benzidine	92-87-5	1,114.24	23	4	6,662	22	28	6,711
Butyl benzyl phthalate	85-68-7	659.38	1,070	249	3,942	1,000	1,720	6,662
Toxaphene	8001-35-2	1,086.65	24	17	6,497	22	117	6,637
1,3-Dichlorobenzene	541-73-1	631.41	62	388	3,775	58	2,680	6,513
1,1,2-Trichloroethane	79-00-5	724.96	51	305	4,334	48	2,106	6,488
Ethyl chloride	75-00-3	693.90	64	327	4,149	60	2,258	6,467
Arochlor 1016	12674-11-2	1,014.33	41	39	6,064	38	269	6,372
1,2,4-Trichlorobenzene	120-82-1	647.30	56	353	3,870	52	2,438	6,360
Disulfoton	298-04-4	1,058.85	25		6,331	23		6,354
Molybdenum 7439-98	-7		3,186	465		2,979	3,211	6,190
1,1,2,2-Tetrachloroethane	79-34-5	782.15	43	196	4,676	40	1,354	6,070
Endosulfan	115-29-7	1,004.65	3		6,007	3		6,009
Dibenzofuran	132-64-9	689.19	17	267	4,121	16	1,844	5,980
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	155	4,840	29	1,070	5,940
n-Butanol 71-36-	3		6,253			5,846		5,846
Ammonia	7664-41-7	745.55	1,453		4,457	1,358		5,816
2,4-Dinitrotoluene	121-14-2	837.88	43	97	5,010	40	670	5,720
Cumene 98-82-	8		1,632	599		1,526	4,137	5,663
Bromoform	75-25-2	643.53	68	248	3,848	64	1,713	5,624
4-Methylphenol	106-44-5	707.83	39	189	4,232	36	1,305	5,574
2,4,6-Trichlorophenol	88-06-2	863.71	35	49	5,164	33	338	5,535

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
2,4,6-Trinitrotoluene	118-96-7	883.59	51	28	5,283	48	193	5,524
Cacodylic acid	75-60-5	922.06	11		5,513	10		5,523
Bis(chloroethyl)ether	111-44-4	859.88	20	50	5,141	19	345	5,505
2,4-Dinitrophenol	51-28-5	860.45	34	46	5,144	32	318	5,494
Asbestos	1332-21-4	841.54	475		5,031	444		5,475
Dibromochloromethane	124-48-1	580.59	48	283	3,471	45	1,954	5,471
Hexachlorobenzene	118-74-1	838.34	88	51	5,012	82	352	5,447
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	43	5,024	95	297	5,416
N-Nitroso-di-N-propylamine	621-64-7	811.05	23	70	4,849	22	483	5,354
Chlorine	7782-50-5	840.37	241	1	5,024	225	7	5,257
Hydrazine/hydrazine sulfate	302-01-2	864.41	69	3	5,168	65	21	5,253
2,4-Dimethylphenol	105-67-9	685.76	26	161	4,100	24	1,112	5,236
Uranium, natural	7440-61-1	833.41	59	8	4,983	55	55	5,093
Ethion	563-12-2	834.03	6		4,986	6		4,992
2-Methylphenol	95-48-7	658.66	103	138	3,938	96	953	4,987
Chlorpyrifos	2921-88-2	804.93	166		4,813	155		4,968
Radium 226,228	7440-14-4	828.07			4,951			4,951
1,3,5-Trinitrobenzene	99-35-4	820.17	7	5	4,904	7	35	4,945
Coke oven emissions	8007-45-2	807.07	77		4,825	72		4,897
Hydrogen cyanide	74-90-8	803.08	32		4,801	30		4,831
Merphos oxide	78-48-8	797.88	2		4,770	2		4,772
Parathion	56-38-2	784.14	8		4,688	7		4,696
technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4		4,633	4		4,637
Trifluralin	1582-09-8	770.12	27		4,604	25		4,630
1,4-Dioxane	123-91-1	616.29	623	51	3,685	582	352	4,619
Pentachlorobenzene	608-93-5	753.58	4	1	4,505	4	7	4,516
N-Nitrosodiphenylamine	86-30-6	624.79	29	99	3,735	27	684	4,446
1,2-Diphenylhydrazine	122-66-7	713.90	1		4,268	1		4,269
Hexachloroethane	67-72-1	653.10	39	44	3,905	36	304	4,245
Benzo[g,h,i]perylene 191-24	-2		19	610		18	4,213	4,230
2,4-Dichlorophenol 120-83	-2	616.45		73	3,686		504	4,190
Ethyl acetate	141-78-6		4,385	8		4,100	55	4,155
N-Nitrosodimethylamine	62-75-9	650.71	16	28	3,890	15	193	4,099
2-Chlorophenol	95-57-8	599.62	36	66	3,585	34	456	4,074
2,4,5-Trichlorophenol	95-95-4	604.83	21	43	3,616	20	297	3,933
Fluorene 86-73-	7		19	558		18	3,854	3,871
p-Nitrophenol	100-02-7	567.79	55	61	3,395	51	421	3,867
Tricresol	1319-77-3	602.74	272		3,604	254		3,858
2,6-Dinitrotoluene	606-20-2	555.20	20	70	3,319	19	483	3,822
Anthracene 120-12	-7		38	548		36	3,785	3,820
Propylene glycol	57-55-6		4,063			3,799		3,799
N,N-Dimethylformamide	68-12-2	578.23	363		3,457	339		3,796
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	24	3,494	102	166	3,762

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Methyl tert-butyl ether	1634-04-4		742	436		694	3,011	3,705
Fluorine, soluble fluoride	7782-41-4	613.28			3,667			3,667
Nitrite 14797-65	-0	612.64			3,663			3,663
Nitrate	14797-55-8	610.66 2			3,651 2			3,653
Dichlorvos	62-73-7	601.64 49			3,597 46			3,643
Mercuric chloride	7487-94-7	601.45 50			3,596 47			3,643
Naled	300-76-5	602.32 18			3,601 17			3,618
Dimethoate	60-51-5	602.61 11			3,603 10			3,613
Arsine	7784-42-1	602.42 11			3,602 10			3,612
Chlordane (technical)	12789-03-6	602.62 1			3,603 1			3,604
Formaldehyde	50-00-0	599.64 1			3,585 7			3,592
Diuron	330-54-1	579.16 72			3,463 67			3,530
Acrylonitrile	107-13-1	528.28 265		10	3,158 248		69	3,475
Butylate	2008-41-5	578.43 5			3,458 5			3,463
Phosphine	7803-51-2	559.74 16			3,347 15			3,362
di(2-ethylhexyl)Adipate	103-23-1	540.20 50			3,230 47			3,276
Methyl parathion	298-00-0	545.83 7			3,263 7			3,270
Carbaryl	63-25-2	530.98 93			3,175 87			3,262
Trichlorofluoromethane 75-69-	4		535	353		500	2,438	2,938
Dichlorodifluoromethane 75-71-	8		953	293		891	2,023	2,914
Cyclohexanone 108-94	-1		2,829			2,645		2,645
Bromomethane 74-83-	9		63	370		59	2,555	2,614
Bromodichloromethane 75-27-	4		50	369		47	2,548	2,595
Hydrogen chloride	7647-01-0		2,670			2,496		2,496
Acenaphthylene 208-96	-8		20	330		19	2,279	2,298
Phosphoric acid	7664-38-2		2,437			2,278		2,278
Isobutyl alcohol	78-83-1		2,432			2,274		2,274
Diethyl phthalate	84-66-2		56	316		52	2,182	2,235
Hydroquinone 123-31	-9		2,337			2,185		2,185
1,6-Hexamethylene diisocyanate	822-06-0		2,283			2,134		2,134
n-Heptane 142-82	-5		2,116	19		1,978	131	2,110
Propylene glycol monomethyl ether	107-98-2		2,048			1,915		1,915
1,2-Dichloropropane 78-87-	5		51	255		48	1,761	1,809
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	98		1,016	677	1,693
d-Limonene 5989-27	-5		1,488			1,391		1,391
Vinyl acetate	108-05-4		953	31		891	214	1,105
Sodium azide	26628-22-8		1,100			1,028		1,028
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062			993		993
o-Chlorotoluene	95-49-8		94	121		88	836	924
Antimony trioxide	1309-64-4		906			847		847
Chlorodifluoromethane	75-45-6		774	1		724	7	731
1,1,1,2-Tetrafluoroethane 811-97	-2		775			725		725
1,2,3-Trichloropropane 96-18-	4		20	96		19	663	682

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Isophorone 78-59-	1		237	63		222	435	657
2-Ethoxyethanol 110-80	-5		688			643		643
Vanadium pentoxide	1314-62-1		587	8		549	55	604
1,1,1,2-Tetrachloroethane 630-20	-6		19	83		18	573	591
Bromochloromethane 74-97-	5		55	78		51	539	590
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600			561		561
Epichlorohydrin 106-89	-8		559			523		523
2-Methoxyethanol 109-86	-4		559			523		523
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7			73			504	504
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3			72			497	497
Bisphenol A	80-05-7		482			451		451
p-Chloroaniline 106-47	-8		8	62		7	428	436
Triethylamine 121-44	-8		459			429		429
Nitrobenzene 98-95-	3		37	56		35	387	421
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	52		51	359	411
Ethylene diamine	107-15-3		377			352		352
Ammonium acetate	631-61-8		368			344		344
beta-Chloronaphthalene 91-58-	7		24	46		22	318	340
Acetaldehyde 75-07-	0		323	3		302	21	323
o-Dinitrobenzene 528-29	-0			46			318	318
2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	41		16	283	299
Bis(2-chloroethoxy)methane 111-91	-1		14	40		13	276	289
Acrylamide 79-06-	1		303			283		283
1,2-Epoxybutane 106-88	-7		300			280		280
Bis(2-chloroisopropyl) ether	108-60-1		14	37		13	256	269
Formic acid	64-18-6		271	2		253	14	267
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	37		7	256	262
Acetophenone 98-86-	2		14	34		13	235	248
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	34		12	235	247
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	32		16	221	237
Propylene oxide	75-56-9		246			230		230
Dicamba 1918-00	-9		58	25		54	173	227
Phenylmercuric acetate	62-38-4		240			224		224
Acrylic acid	79-10-7		234			219		219
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0		46	22		43	152	195
Chlorothalonil 1897-45	-6		205			192		192
1,1-Biphenyl	92-52-4		98	14		92	97	188
Caprolactam 105-60	-2		23	23		22	159	180
Aniline 62-53-3			140	6		131	41	172
Benzaldehyde 100-52	-7		101	9		94	62	157
Dalapon (sodium salt)	75-99-0		14	20		13	138	151
3-Methylphenol 108-39	-4		43	16		40	110	151
Potassium cyanide	151-50-8		161			151		151

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Cyclohexylamine 108-91	-8		154			144		144
Diphenylamine 122-39	-4		123	3		115	21	136
Pyridine 110-86	-1		83	7		78	48	126
Chromium III, insoluble salts	16065-83-1		118	2		110	14	124
Selenious acid	7783-00-8		110			103		103
Dinoseb	88-85-7		13	13		12	90	102
Baygon 114-26	-1		106			99		99
Tributyltin oxide	56-35-9		106			99		99
Permethrin 52645-53	-1		103			96		96
Chloramben	133-90-4		6	13		6	90	95
Methyl acrylate	96-33-3		102			95		95
Tetraethyl lead	78-00-2		99			93		93
Thiram 137-26	-8		93			87		87
Sodium cyanide	143-33-9		90			84		84
m-Phenylenediamine 108-45	-2		89			83		83
Resmethrin 10453-86	-8		86			80		80
Pentafluoroethane 354-33	-6		86			80		80
Malathion 121-75	-5		80			75		75
Amdro 67485-29	-4		77			72		72
Picloram 1918-02	-1		10	9		9	62	72
N,N-Dimethylaniline 121-69	-7		68			64		64
Folpet 133-07	-3		68			64		64
Ethylene thiourea	96-45-7		65			61		61
Trichloroacetic acid	76-03-9		62			58		58
Furfural 98-01-	1		61			57		57
Triethylene glycol monobutyl ether	143-22-6		60			56		56
2,3,4,6-Tetrachlorophenol 58-90-	2		6	7		6	48	54
Decabromodiphenyl ether (DBDPE)	1163-19-5		56			52		52
Baythroid 68359-37	-5		50			47		47
Dacthal 1861-32	-1		20	4		19	28	46
Simazine 122-34	-9		46			43		43
Atrazine	1912-24-9		37	1		35	7	41
Nitric Oxide	10102-43-9		43			40		40
2-Nitropropane 79-46-	9		43			40		40
Chlorobenzilate 510-15	-6		12	4		11	28	39
Azobenzene 103-33	-3		17	3		16	21	37
Dimethylamine 124-40	-3		38			36		36
Benzyl chloride	100-44-7		7	4		7	28	34
Glyphosate 1071-83	-6		33			31		31
Pendimethalin 40487-42	-1		32			30		30
Diquat 85-00-	7		32			30		30
Acephate 30560-19	-1		30			28		28
Silver cyanide	506-64-9		29			27		27

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Hexazinone 51235-04	-2		29			27		27
Prometon 1610-18	-0		28			26		26
Thallium nitrate	10102-45-1		27			25		25
Selenium sulfide	7446-34-6		27			25		25
Cypermethrin 52315-07	-8		26			24		24
Hexachlorophene 70-30-	4		24			22		22
N-Nitrosodiethylamine 55-18-	5		1	3		1	21	22
Methomyl 16752-77	-5		22			21		21
Maleic anhydride	108-31-6		21			20		20
Copper cyanide	544-92-3		20			19		19
Pentachloronitrobenzene	82-68-8		12			11		18
Zinc phosphide	1314-84-7		19			18		18
Alachlor 15972-60	-8		19			18		18
Aluminum phosphide	20859-73-8		19			18		18
Propargyl alcohol	107-19-7		17			16		16
Tebuthiuron 34014-18	-1		17			16		16
Methacrylonitrile 126-98	-7		2	2		2	14	16
N-Nitroso-di-n-butylamine 924-16	-3		2	2		2	14	16
Benefin 1861-40	-1		16			15		15
Metribuzin 21087-64	-9		16			15		15
4-Aminopyridine 504-24	-5		16			15		15
Bayleton 43121-43	-3		15			14		14
Dibromodichloromethane 594-18	-3			2			14	14
1-Chlorobutane 109-69	-3		14			13		13
3,3-Dimethylbenzidine 119-93	-7		14			13		13
Propachlor 1918-16	-7		14			13		13
Oxadiazon 19666-30	-9		14			13		13
Pentabromodiphenyl ether	32534-81-9		14			13		13
Iprodione 36734-19	-7		14			13		13
Potassium silver cyanide	506-61-6		14			13		13
Pydrin 51630-58	-1		14			13		13
Oryzalin 19044-88	-3		13			12		12
Ethyl carbamate	51-79-6		12			11		11
2,6-Dimethylphenol 576-26	-1		12			11		11
Biphenethrin 82657-04	-3		12			11		11
Quinone 106-51	-4		11			10		10
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10			9		9
Captan 133-06	-2		10			9		9
2-Chloroacetophenone 532-27	-4		10			9		9
Metalaxyl 57837-19	-1		10			9		9
Metolachlor 51218-45	-2		9			8		8
Zinc cyanide	557-21-1		9			8		8
Aluminum sulfamate	7773-06-0		9			8		8

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Warfarin 81-81-	2		9			8		8
N-Nitroso-N-methylethylamine 10595-95	-6		1	1		1		1
N-Nitrosopyrrolidine 930-55	-2		1	1		1		1
Chlorpropham 101-21	-3		8			7		7
Endothall 145-73	-3		8			7		7
Paraquat 1910-42	-5		8			7		7
Pronamide 23950-58	-5		8			7		7
Fluridone 59756-60	-4		8			7		7
2,4-Diaminotoluene 95-80-	7		8			7		7
Tetrachlorovinphos 961-11	-5		8			7		7
Mirex 2385-85	-5			1			7	7
Sodium diethyldithiocarbamate	148-18-5		7			7		7
Vernam 1929-77	-7		7			7		7
Strychnine 57-24-	9		7			7		7
Paclobutrazol 76738-62	-0		7			7		7
Maneb 12427-38	-2		6			6		6
Thallic oxide	1314-32-5		6			6		6
Merphos 150-50	-5		6			6		6
Benomyl 17804-35	-2		6			6		6
Fenamiphos 22224-92	-6		6			6		6
Cyanogen 460-19	-5		6			6		6
Propylene glycol monoethyl ether	52125-53-8		6			6		6
Barium cyanide	542-62-1		6			6		6
Tralomethrin 66841-25	-6		6			6		6
Ally 74223-64	-6		6			6		6
Ametryn 834-12	-8		6			6		6
Rotenone 83-79-	4		6			6		6
Ethyleneimine 151-56	-4		5			5		5
Molinate 2212-67	-1		5			5		5
Oxamyl 23135-22	-0		5			5		5
Carboxin 5234-68	-4		5			5		5
Nitroguanidine 556-88	-7		5			5		5
Phosmet 732-11	-6		5			5		5
Allyl chloride	107-05-1		4			4		4
N-Nitrosodiethanolamine 1116-54	-7		4			4		4
Adiponitrile 111-69	-3		4			4		4
Carbofuran 1563-66	-2		4			4		4
Cyanazine 21725-46	-2		4			4		4
Tetraethyldithiopyrophosphate 3689-24	-5		4			4		4
Oxyfluorfen 42874-03	-3		4			4		4
Carbonyl sulfide	463-58-1		4			4		4
Vinclozolin 50471-44	-8		4			4		4
Thallium acetate	563-68-8		4			4		4

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Propiconazole 60207-90	-1		4			4		4
Avermectin B1	65195-55-3		4			4		4
Prometryn 7287-19	-6		4			4		4
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4			4		4
Dimethyl sulfate	77-78-1		4			4		4
Methyl chlorocarbonate	79-22-1		4			4		4
Isoxaben 82558-50	-7		4			4		4
1,2,4,5-Tetrachlorobenzene 95-94-	3		4			4		4
Dodine 2439-10	-3		3			3		3
Aldicarb 116-06	-3		3			3		3
Zineb 12122-67	-7		3			3		3
Propazine 139-40	-2		3			3		3
Aldicarb sulfone	1646-88-4		3			3		3
Bromoxynil octanoate	1689-99-2		3			3		3
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3			3		3
Norflurazon 27314-13	-2		3			3		3
Amitraz 33089-61	-1		3			3		3
Terbacil 5902-51	-2		3			3		3
Nonabromodiphenyl ether	63936-56-1		3			3		3
Sethoxydim 74051-80	-2		3			3		3
Terbutryn 886-50	-0		3			3		3
Fonofos 944-22	-9		3			3		3
3,4-Dimethylphenol 95-65-	8		3			3		3
Diphenamid 957-51	-7		3			3		3
Benzotrichloride 98-07-	7		3			3		3
1,4-Dibromobenzene 106-37	-6		2			2		2
Dimethyl terephthalate (DMT)	120-61-6		2			2		2
Aramite 140-57	-8		2			2		2
Bidrin 141-66	-2		2			2		2
Napropamide 15299-99	-7		2			2		2
Nitrapyrin 1929-82	-4		2			2		2
p,p'-Dibromodiphenyl ether	2050-47-7		2			2		2
Octabromodiphenyl ether	32536-52-0		2			2		2
Calcium cyanide	592-01-8		2			2		2
1,2,4-Tribromobenzene 615-54	-3		2			2		2
Acifluorfen, sodium	62476-59-9		2			2		2
Sodium fluoroacetate	62-74-8		2			2		2
Chlorsulfuron 64902-72	-3		2			2		2
Flutolanil 66332-96	-5		2			2		2
Fluvalinate 69409-94	-5		2			2		2
Imazaquin 81335-37	-7		2			2		2
Allyl alcohol	107-18-6		1			1		1
Furan 110-00	-9		1			1		1

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Maleic hydrazide	123-33-1		1			1		1
Fluometuron 2164-17	-2		1			1		1
Triallate 2303-17	-5		1			1		1
Thiobencarb 28249-77	-6		1			1		1
Linuron 330-55	-2		1			1		1
Isopropalin 33820-53	-0		1			1		1
t-Butyl chloride	507-20-0		1			1		1
Diethyl sulfate	64-67-5		1			1		1
Thallium carbonate	6533-73-9		1			1		1
Thallium (I) sulfate	7446-18-6		1			1		1
Bromotrichloromethane 75-62-	7		1			1		1
Thallium chloride	7791-12-0		1			1		1
Systhane 88671-89	-0		1			1		1
Captafol 2425-06	-1							
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7							
Express 101200-4	8-0							
Methamidophos 10265-92	-6							
Monchloramine 10599-90	-3							
Chloromethyl methyl ether	107-30-2							
Nickel subsulfide	12035-72-2							
Thallium selenite	12039-52-0							
Propham 122-42	-9							
p-Chlorophenyl methyl sulfide	123-09-1							
4,6-Dinitro-o-cyclohexyl phenol	131-89-5							
Nickel carbonyl	13463-39-3							
Quinalphos 13593-03	-8							
Phenmedipham 13684-63	-4							
Diisopropyl methylphosphonate	1445-75-6							
Alar 1596-84	-5							
Ethephon 16672-87	-0							
Bromoxynil 1689-84	-5							
Isopropyl methyl phosphonic acid	1832-54-8							
Phosolone 2310-17	-0							
Propargite 2312-35	-8							
Thiophanate-methyl 23564-05	-8							
Mepiquat chloride	24307-26-4							
Pentachlorocyclopentadiene 25329-35	-5							
Pirimiphos-methyl 29232-93	-7							
Asulam 3337-71	-1							
Diazomethane 334-88	-3							
Acetochlor 34256-82	-1							
Diflubenuron 35367-38	-5							
Imazalil 35554-44	-0							

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
Hexabromodiphenyl ether	36483-60-0							
Fosetyl-al 39148-24	-8							
Danitol 39515-41	-8							
Tetrabromodiphenyl ether	40088-47-9							
Difenzoquat 43222-48	-6							
Tribromodiphenyl ether	49690-94-0							
Chlorine cyanide	506-77-4							
Bis(chloromethyl) ether	542-88-1							
Carbosulfan 55285-14	-8							
Dimethipin 55290-64	-7							
beta-Propiolactone 57-57-	8							
Tridiphan 58138-08	-2							
Vinyl bromide	593-60-2							
1,1,2-Trichloropropane 598-77	-6							
Furmecyclo 60568-05	-0							
Methyl isocyanate	624-83-9							
Selenourea 630-10	-4							
Cyromazine 66215-27	-8							
Prochloraz 67747-09	-5							
Cyhalothrin/karate 68085-85	-8							
Haloxyp-methyl 69806-40	-2							
Propanil 709-98	-8							
Fomasafen 72178-02	-0							
Apollo 74115-24	-5							
Propyleneimine 75-55-	8							
Glycidaldehyde 765-34	-4							
Assure 76578-14	-8							
Glufosinate-ammonium 77182-82	-2							
Trichlorocyclopentadiene 77323-84	-3							
Lactofen 77501-63	-4							
Savey 78587-05	-0							
Harmony 79277-27	-3							
Demeton 8065-48	-3							
Pursuit 81335-77	-5							
Triasulfuron 82097-50	-5							
Londax 83055-99	-6							
Ethylphthalyl ethylglycolate (EPEG)	84-72-0							
Phthalic anhydride	85-44-9							
Nustar 85509-19	-9							
Hexabromobenzene 87-82-	1							
ortho-Anisidine 90-04-	0							
Chlorimuron-ethyl 90982-32	-4							
p-Chlorophenyl methyl sulfoxide	934-73-6							

TABLE A-5d. ATSDR, HMIRS, and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5							
Methidathion 950-37	-8							
p-Chlorophenyl methyl sulfone	98-57-7							

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Ethylbenzene	100-41-4	832.13	10,696	1,059	4,975	10,000	7,314	22,289	17,314
Manganese	7439-96-5	807.90	7,411	1,292	4,830	6,929	8,923	20,682	15,851
Nickel	7440-02-0	1,005.40	7,850	1,210	6,011	7,339	8,356	21,707	15,696
Copper	7440-50-8	804.86	6,993	1,208	4,812	6,538	8,343	19,693	14,880
Dichloromethane	75-09-2	888.96	4,136	1,196	5,315	3,867	8,260	17,441	12,127
Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,448	10,000	1,570	10,000	21,570	11,570
Cadmium	7440-43-9	1,324.22	1,970	1,191	7,917	1,842	8,225	17,984	10,067
Ethylene glycol	107-21-1		10,234	9		9,568	62	9,630	9,630
Naphthalene	91-20-3	896.67	1,635	1,064	5,361	1,529	7,348	14,238	8,877
Trichloroethylene	79-01-6	1,154.73	568	1,141	6,904	531	7,880	15,315	8,411
Mercury, elemental	7439-97-6	1,504.69	1,588	981	8,996	1,485	6,775	17,256	8,260
Silver	7440-22-4	612.19	2,491	816	3,660	2,329	5,635	11,624	7,964
Selenium and compounds	7782-49-2	778.98	296	1,097	4,657	277	7,576	12,510	7,853
Antimony	7440-36-0	605.37	2,105	816	3,619	1,968	5,635	11,223	7,603
Methanol	67-56-1	7,659		17	1,161		7	7,168	7,168
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	851	5,495	1,226	5,877	12,597	7,103
Beryllium and compounds	7440-41-7	1,046.12	379	948	6,255	354	6,547	13,156	6,901
Tetrachloroethylene	127-18-4	1,080.43	929	846	6,460	869	5,843	13,171	6,711
cis-1,2-Dichloroethylene	156-59-2	533.15	27	933	3,188	25	6,443	9,656	6,469
Molybdenum	7439-98-7	3,186		465	2,979		3,211	6,190	6,190
n-Butanol 71-36-	3		6,253			5,846		5,846	5,846
1,1,1-Trichloroethane	71-55-6	833.81	3,552	355	4,985	3,321	2,452	10,758	5,773
Cumene	98-82-8	1,632		599	1,526		4,137	5,663	5,663
Fluoranthene	206-44-0	812.40	32	804	4,857	30	5,552	10,440	5,582
Phenanthrene	85-01-8	597.68	36	799	3,573	34	5,518	9,125	5,552
Pyrene	129-00-0	577.95	30	788	3,455	28	5,442	8,925	5,470
Chrysene	218-01-9	802.10	34	733	4,796	32	5,062	9,890	5,094

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Benzo [a] pyrene	50-32-8	1,312.45	41	703	7,847	38	4,855	12,740	4,893
Benzo(b)fluoranthene	205-99-2	1,266.55	25	698	7,572	23	4,820	12,416	4,844
Benzo(a)anthracene	56-55-3	1,057.96	33	693	6,325	31	4,786	11,142	4,817
trans-1,2-Dichloroethylene	156-60-5	704.04	136	606	4,209	127	4,185	8,522	4,312
Benzo[g,h,i]perylene	191-24-2	19		610	18		4,213	4,230	4,230
Indeno[1,2,3-cd]pyrene	193-39-5	703.30	23	604	4,205	22	4,171	8,398	4,193
1,2-Dichloroethane	107-06-2	863.99	440	546	5,166	411	3,771	9,348	4,182
Ethyl acetate	141-78-6	4,385		84	100		55	4,155	4,155
Benzo(k)fluoranthene	207-08-9	981.26	24	583	5,867	22	4,026	9,915	4,049
Chlorobenzene	108-90-7	819.69	213	551	4,901	199	3,805	8,905	4,004
Dibutyl phthalate	84-74-2	1,007.49	1,132	420	6,024	1,058	2,901	9,982	3,959
Fluorene	86-73-7	19		558	18		3,854	3,871	3,871
Anthracene	120-12-7	38		548	36		3,785	3,820	3,820
Propylene glycol	57-55-6		4,063			3,799		3,799	3,799
1,4-Dichlorobenzene	106-46-7	737.32	246	516	4,408	230	3,564	8,202	3,794
Carbon disulfide	75-15-0	702.55	40	539	4,200	37	3,722	7,960	3,760
Methyl tert-butyl ether	1634-04-4	742		436	694		3,011	3,705	3,705
1,1-Dichloroethane	75-34-3	736.23	45	528	4,402	42	3,646	8,090	3,688
Styrene	100-42-5	532.70	1,646	308	3,185	1,539	2,127	6,851	3,666
Acenaphthene	83-32-9	731.25	37	513	4,372	35	3,543	7,949	3,577
1,2-Dichlorobenzene	95-50-1	704.91	249	473	4,215	233	3,267	7,714	3,499
Dibenzo(a,h)anthracene	53-70-3	1,165.88	23	470	6,971	22	3,246	10,238	3,267
Trichlorofluoromethane	75-69-4	535		353	500		2,438	2,938	2,938
Dichlorodifluoromethane	75-71-8	953		293	891		2,023	2,914	2,914
1,3-Dichlorobenzene	541-73-1	631.41	62	388	3,775	58	2,680	6,513	2,738
Butyl benzyl phthalate	85-68-7	659.38	1,070	249	3,942	1,000	1,720	6,662	2,720
Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	10	8,166	2,609	69	10,844	2,678
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	372	7,135	107	2,569	9,810	2,676
Cyclohexanone 108-94	-1		2,829			2,645		2,645	2,645
Bromomethane	74-83-9	63		370	59		2,555	2,614	2,614

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Bromodichloromethane	75-27-4 50			369 47			2,548	2,595	2,595
Carbon tetrachloride	56-23-5	1,023.32 292		329	6,118 273		2,272	8,663	2,545
Hydrogen chloride	7647-01-0		2,670			2,496		2,496	2,496
1,2,4-Trichlorobenzene	120-82-1	647.30 56		353	3,870 52		2,438	6,360	2,490
Ethyl chloride	75-00-3	693.90 64		327	4,149 60		2,258	6,467	2,318
Acenaphthylene	208-96-8 20			330 19			2,279	2,298	2,298
Phosphoric acid	7664-38-2		2,437			2,278		2,278	2,278
Isobutyl alcohol	78-83-1		2,432			2,274		2,274	2,274
Diethyl phthalate	84-66-2 56			316 52			2,182	2,235	2,235
Hydroquinone 123-31	-9		2,337			2,185		2,185	2,185
1,1,2-Trichloroethane	79-00-5	724.96 51		305	4,334 48		2,106	6,488	2,154
1,6-Hexamethylene diisocyanate	822-06-0		2,283			2,134		2,134	2,134
n-Heptane	142-82-5 2,116			19 1,978			131	2,110	2,110
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83 37		288	6,665 35		1,989	8,689	2,024
Dibromochloromethane	124-48-1	580.59 48		283	3,471 45		1,954	5,471	1,999
Propylene glycol monomethyl ether	107-98-2		2,048			1,915		1,915	1,915
Dibenzofuran	132-64-9	689.19 17		267	4,121 16		1,844	5,980	1,860
Dieldrin	60-57-1	1,150.91 45		259	6,881 42		1,789	8,712	1,831
1,2-Dichloropropane 78-87-	5		51	255	0	48	1,761	1,809	1,809
Bromoform	75-25-2	643.53 68		248	3,848 64		1,713	5,624	1,776
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1 1,087			98 1,016			677	1,693	1,693
Cyanide, free	57-12-5	1,099.48 48		215	6,574 45		1,485	8,103	1,530
Heptachlor epoxide	1024-57-3	1,027.12 45		209	6,141 42		1,443	7,626	1,485
Hexachlorobutadiene	87-68-3	1,129.63		202 6,754			1,395 8,149		1,395
1,1,2,2-Tetrachloroethane	79-34-5	782.15 43		196	4,676 40		1,354	6,070	1,394
d-Limonene 5989-27	-5		1,488			1,391		1,391	1,391
Ammonia	7664-41-7	745.55 1,453			4,457 1,358			5,816	1,358
4-Methylphenol	106-44-5	707.83 39		189	4,232 36		1,305	5,574	1,342
Heptachlor	76-44-8	1,072.67 54		184	6,413 50		1,271	7,734	1,321
Aldrin	309-00-2	1,117.22 44		181	6,680 41		1,250	7,971	1,291

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30	177	6,208	28	1,222	7,458	1,250
gamma-Hexachlorocyclohexane	58-89-9	1,081.63	82	166	6,467	77	1,146	7,690	1,223
Methoxychlor	72-43-5	994.47	63	165	5,946	59	1,140	7,144	1,198
Arochlor 1254	11097-69-1	1,182.63	70	162	7,071	65	1,119	8,255	1,184
beta-Hexachlorocyclohexane	319-85-7	1,060.22	29	162	6,339	27	1,119	7,485	1,146
2,4-Dimethylphenol	105-67-9	685.76	26	161	4,100	24	1,112	5,236	1,136
Vinyl acetate	108-05-4	953		31	891		214	1,105	1,105
Endrin	72-20-8	1,048.57	58	152	6,269	54	1,050	7,373	1,104
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	155	4,840	29	1,070	5,940	1,099
2-Methylphenol	95-48-7	658.66	103	138	3,938	96	953	4,987	1,049
Sodium azide	26628-22-8		1,100			1,028		1,028	1,028
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062			993		993	993
White phosphorus	7723-14-0	1,144.77	1,054	6,844		985	7,830		985
1,4-Dioxane	123-91-1	616.29	623	51	3,685	582	352	4,619	935
o-Chlorotoluene	95-49-8	94		121	88		836	924	924
Pentachlorophenol	87-86-5	1,028.01	110	116	6,146	103	801	7,050	904
Chromium (VI)	18540-29-9	1,149.98	147	103	6,875	137	711	7,724	849
Antimony trioxide	1309-64-4		906			847		847	847
1,2-Dibromo-3-chloropropane	96-12-8	1,035.55	30	102	6,191	28	704	6,924	732
Chlorodifluoromethane	75-45-6	74		1	724		7	731	731
1,1,1,2-Tetrafluoroethane 811-97	-2		775			725		725	725
N-Nitrosodiphenylamine	86-30-6	624.79	29	99	3,735	27	684	4,446	711
2,4-Dinitrotoluene	121-14-2	837.88	43	97	5,010	40	670	5,720	710
1,2,3-Trichloropropane	96-18-4	20		96	19		663	682	682
Isophorone	78-59-1	237		63	222		435	657	657
2-Ethoxyethanol 110-80	-5		688			643		643	643
Vanadium pentoxide	1314-62-1	587		8	549		55	604	604
1,1,1,2-Tetrachloroethane	630-20-6	19		83	18		573	591	591
Bromochloromethane	74-97-5	55		78	51		539	590	590
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600			561		561	561

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Epichlorohydrin 106-89	-8		559			523		523	523
2-Methoxyethanol 109-86	-4		559			523		523	523
N-Nitroso-di-N-propylamine	621-64-7	811.05	23	70	4,849	22	483	5,354	505
2,4-Dichlorophenol	120-83-2	616.45		73	3,686		504	4,190	504
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7			73			504	504	504
2,6-Dinitrotoluene	606-20-2	555.20	20	70	3,319	19	483	3,822	502
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3			72			497	497	497
2-Chlorophenol	95-57-8	599.62	36	66	3,585	34	456	4,074	489
p-Nitrophenol	100-02-7	567.79	55	61	3,395	51	421	3,867	473
Bisphenol A	80-05-7		482			451		451	451
Asbestos	1332-21-4	841.54	475		5,031	444		5,475	444
p-Chloroaniline	106-47-8	8		62	7		428	436	436
Hexachlorobenzene	118-74-1	838.34	88	51	5,012	82	352	5,447	434
Triethylamine 121-44	-8		459			429		429	429
Nitrobenzene	98-95-3	37		56	35		387	421	421
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	55		52	51		359	411	411
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	1,132.49	37	54	6,771	35	373	7,178	408
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	43	5,024	95	297	5,416	392
2,4,6-Trichlorophenol	88-06-2	863.71	35	49	5,164	33	338	5,535	371
Bis(chloroethyl)ether	111-44-4	859.88	20	50	5,141	19	345	5,505	364
Ethylene diamine	107-15-3		377			352		352	352
2,4-Dinitrophenol	51-28-5	860.45	34	46	5,144	32	318	5,494	349
Ammonium acetate	631-61-8		368			344		344	344
Hexachloroethane	67-72-1	653.10	39	44	3,905	36	304	4,245	340
beta-Chloronaphthalene	91-58-7	24		46	22		318	340	340
N,N-Dimethylformamide	68-12-2	578.23	363		3,457	339		3,796	339
Acetaldehyde	75-07-0	323		3	302		21	323	323
o-Dinitrobenzene 528-29	-0			46			318	318	318
Acrylonitrile	107-13-1	528.28	265	10	3,158	248	69	3,475	317
2,4,5-Trichlorophenol	95-95-4	604.83	21	43	3,616	20	297	3,933	317

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Arochlor 1016	12674-11-2	1,014.33	41	39	6,064	38	269	6,372	308
2,4,5-Trichlorophenoxyacetic acid	93-76-5	17		41	16		283	299	299
Bis(2-chloroethoxy)methane	111-91-1	14		40	13		276	289	289
Acrylamide 79-06-	1		303			283		283	283
1,2-Epoxybutane 106-88	-7		300			280		280	280
Bis(2-chloroisopropyl) ether	108-60-1	14		37	13		256	269	269
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	24	3,494	102	166	3,762	268
Formic acid	64-18-6	271		2	253		14	267	267
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	7		37	7		256	262	262
Tricresol	1319-77-3	602.74	272		3,604	254		3,858	254
Acetophenone	98-86-2	14		34	13		235	248	248
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	13		34	12		235	247	247
2,4,6-Trinitrotoluene	118-96-7	883.59	51	28	5,283	48	193	5,524	241
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	32		16	221	237	237
Chlorine	7782-50-5	840.37	241	1	5,024	225	7	5,257	232
Propylene oxide	75-56-9		246			230		230	230
Dicamba	1918-00-9	58		25	54		173	227	227
Phenylmercuric acetate	62-38-4		240			224		224	224
Acrylic acid	79-10-7		234			219		219	219
N-Nitrosodimethylamine	62-75-9	650.71	16	28	3,890	15	193	4,099	208
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	46		22	43		152	195	195
Chlorothalonil 1897-45	-6		205			192		192	192
1,1-Biphenyl	92-52-4	98		14	92		97	188	188
Caprolactam	105-60-2	23		23	22		159	180	180
Aniline	62-53-3	140		6	131		41	172	172
Benzaldehyde 100-52	-7		101	9		94	62	157	157
Chlorpyrifos	2921-88-2	804.93	166		4,813	155		4,968	155
Dalapon (sodium salt)	75-99-0		14	20		13	138	151	151
3-Methylphenol	108-39-4	43		16	40		110	151	151
Potassium cyanide	151-50-8		161			151		151	151

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Cyclohexylamine 108-91	-8		154			144		144	144
Toxaphene	8001-35-2	1,086.65	24	17	6,497	22	117	6,637	140
Diphenylamine	122-39-4	123		3	115		21	136	136
Pyridine	110-86-1	83		7	78		48	126	126
Chromium III, insoluble salts	16065-83-1		118	2		110	14	124	124
Uranium, natural	7440-61-1	833.41	59	8	4,983	55	55	5,093	110
Selenious acid	7783-00-8		110			103		103	103
Dinoseb	88-85-7	13		13	12		90	102	102
Baygon 114-26	-1		106			99		99	99
Tributyltin oxide	56-35-9		106			99		99	99
Permethrin 52645-53	-1		103			96		96	96
Chloramben	133-90-4	6		13	6		90	95	95
Methyl acrylate	96-33-3		102			95		95	95
Tetraethyl lead	78-00-2		99			93		93	93
Carbaryl	63-25-2	530.98	93		3,175	87		3,262	87
Thiram 137-26	-8		93			87		87	87
Hydrazine/hydrazine sulfate	302-01-2	864.41	69	3	5,168	65	21	5,253	85
Sodium cyanide	143-33-9		90			84		84	84
m-Phenylenediamine 108-45	-2		89			83		83	83
Resmethrin 10453-86	-8		86			80		80	80
Pentafluoroethane 354-33	-6		86			80		80	80
Malathion 121-75	-5		80			75		75	75
Coke oven emissions	8007-45-2	807.07	77		4,825	72		4,897	72
Amdro 67485-29	-4		77			72		72	72
Picloram 1918-02	-1		10	9		9	62	72	72
Diuron	330-54-1	579.16	72		3,463	67		3,530	67
N,N-Dimethylaniline 121-69	-7		68			64		64	64
Folpet 133-07	-3		68			64		64	64
Ethylene thiourea	96-45-7		65			61		61	61
Trichloroacetic acid	76-03-9		62			58		58	58

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Furfural 98-01-	1		61			57		57	57
Triethylene glycol monobutyl ether	143-22-6		60			56		56	56
2,3,4,6-Tetrachlorophenol	58-90-2	6		7	6		48	54	54
Decabromodiphenyl ether (DBDPE)	1163-19-5		56			52		52	52
Benzidine	92-87-5	1,114.24	23	4	6,662	22	28	6,711	49
Mercuric chloride	7487-94-7	601.45	50		3,596	47		3,643	47
di(2-ethylhexyl)Adipate	103-23-1	540.20	50		3,230	47		3,276	47
Baythroid 68359-37	-5		50			47		47	47
Dacthal	1861-32-1	20		4	19		28	46	46
Dichlorvos	62-73-7	601.64	49		3,597	46		3,643	46
Simazine 122-34	-9		46			43		43	43
Atrazine	1912-24-9	37		1	35		7	41	41
1,3,5-Trinitrobenzene	99-35-4	820.17	7	5	4,904	7	35	4,945	41
Nitric Oxide	10102-43-9		43			40		40	40
2-Nitropropane 79-46-	9		43			40		40	40
Chlorobenzilate	510-15-6	12		4	11		28	39	39
Azobenzene	103-33-3	17		3	16		21	37	37
Dimethylamine 124-40	-3		38			36		36	36
Benzyl chloride	100-44-7	7		4	7		28	34	34
Glyphosate 1071-83	-6		33			31		31	31
Creosote	8001-58-9	1,124.32	32		6,722	30		6,752	30
Hydrogen cyanide	74-90-8	803.08	32		4,801	30		4,831	30
Pendimethalin 40487-42	-1		32			30		30	30
Diquat 85-00-	7		32			30		30	30
Acephate 30560-19	-1		30			28		28	28
Silver cyanide	506-64-9		29			27		27	27
Hexazinone 51235-04	-2		29			27		27	27
Prometon 1610-18	-0		28			26		26	26
Trifluralin	1582-09-8	770.12	27		4,604	25		4,630	25
Thallium nitrate	10102-45-1		27			25		25	25

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Selenium sulfide	7446-34-6		27			25		25	25
Cypermethrin 52315-07	-8		26			24		24	24
Disulfoton	298-04-4	1,058.85	25		6,331	23		6,354	23
Hexachlorophene 70-30-	4		24			22		22	22
N-Nitrosodiethylamine	55-18-5			3			21	22	22
Methomyl 16752-77	-5		22			21		21	21
Maleic anhydride	108-31-6		21			20		20	20
Copper cyanide	544-92-3		20			19		19	19
Zinc phosphide	1314-84-7		19			18		18	18
Alachlor 15972-60	-8		19			18		18	18
Aluminum phosphide	20859-73-8		19			18		18	18
Naled	300-76-5	602.32	18		3,601	17		3,618	17
Propargyl alcohol	107-19-7		17			16		16	16
Tebuthiuron 34014-18	-1		17			16		16	16
Methacrylonitrile	126-98-7			2			14	16	16
N-Nitroso-di-n-butylamine	924-16-3			2			14	16	16
Phosphine	7803-51-2	559.74	16		3,347	15		3,362	15
Benefin 1861-40	-1		16			15		15	15
Metribuzin 21087-64	-9		16			15		15	15
4-Aminopyridine 504-24	-5		16			15		15	15
Bayleton 43121-43	-3		15			14		14	14
Dibromodichloromethane 594-18	-3			2			14	14	14
1-Chlorobutane 109-69	-3		14			13		13	13
3,3-Dimethylbenzidine 119-93	-7		14			13		13	13
Propachlor 1918-16	-7		14			13		13	13
Oxadiazon 19666-30	-9		14			13		13	13
Pentabromodiphenyl ether	32534-81-9		14			13		13	13
Iprodione 36734-19	-7		14			13		13	13
Potassium silver cyanide	506-61-6		14			13		13	13
Pydrin 51630-58	-1		14			13		13	13

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Oryzalin 19044-88	-3		13			12		12	12
Pentachloronitrobenzene	82-68-8	12		1 11				11	11
Ethyl carbamate	51-79-6		12			11		11	11
2,6-Dimethylphenol 576-26	-1		12			11		11	11
Biphenthrin 82657-04	-3		12			11		11	11
Pentachlorobenzene	608-93-5	753.58	4	1	4,505	4	7	4,516	11
Cacodylic acid	75-60-5	922.06	11		5,513	10		5,523	10
Dimethoate	60-51-5	602.61	11		3,603	10		3,613	10
Arsine	7784-42-1	602.42	11		3,602	10		3,612	10
Quinone 106-51	-4		11			10		10	10
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10			9		9	9
Captan 133-06	-2		10			9		9	9
2-Chloroacetophenone 532-27	-4		10			9		9	9
Metalaxyl 57837-19	-1		10			9		9	9
Metolachlor 51218-45	-2		9			8		8	8
Zinc cyanide	557-21-1		9			8		8	8
Aluminum sulfamate	7773-06-0		9			8		8	8
Warfarin 81-81-	2		9			8		8	8
N-Nitroso-N-methylethylamine	10595-95-6	1		1 1			7	8	8
N-Nitrosopyrrolidine	930-55-2	1		1 1			7	8	8
Parathion	56-38-2	784.14	8		4,688	7		4,696	7
Chlorpropham 101-21	-3		8			7		7	7
Endothall 145-73	-3		8			7		7	7
Paraquat 1910-42	-5		8			7		7	7
Pronamide 23950-58	-5		8			7		7	7
Fluridone 59756-60	-4		8			7		7	7
2,4-Diaminotoluene 95-80-	7		8			7		7	7
Tetrachlorovinphos 961-11	-5		8			7		7	7
Formaldehyde	50-00-0	599.64		1 3,585		0	7 3,592		7
Mirex 2385-85	-5			1		0	7	7	7

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Methyl parathion	298-00-0	545.83 7			3,263 7			3,270	7
Sodium diethyldithiocarbamate	148-18-5		7			7		7	7
Vernam 1929-77	-7		7			7		7	7
Strychnine 57-24-	9		7			7		7	7
Paclobutrazol 76738-62	-0		7			7		7	7
Ethion	563-12-2	834.03 6			4,986 6			4,992	6
Maneb 12427-38	-2		6			6		6	6
Thallic oxide	1314-32-5		6			6		6	6
Merphos 150-50	-5		6			6		6	6
Benomyl 17804-35	-2		6			6		6	6
Fenamiphos 22224-92	-6		6			6		6	6
Cyanogen 460-19	-5		6			6		6	6
Propylene glycol monoethyl ether	52125-53-8		6			6		6	6
Barium cyanide	542-62-1		6			6		6	6
Tralomethrin 66841-25	-6		6			6		6	6
Ally 74223-64	-6		6			6		6	6
Ametryn 834-12	-8		6			6		6	6
Rotenone 83-79-	4		6			6		6	6
Butylate	2008-41-5	578.43 5			3,458 5			3,463	5
Ethyleneimine 151-56	-4		5			5		5	5
Molinate 2212-67	-1		5			5		5	5
Oxamyl 23135-22	-0		5			5		5	5
Carboxin 5234-68	-4		5			5		5	5
Nitroguanidine 556-88	-7		5			5		5	5
Phosmet 732-11	-6		5			5		5	5
technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91 4			4,633 4			4,637	4
Allyl chloride	107-05-1		4			4		4	4
N-Nitrosodiethanolamine 1116-54	-7		4			4		4	4
Adiponitrile 111-69	-3		4			4		4	4
Carbofuran 1563-66	-2		4			4		4	4

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Cyanazine 21725-46	-2		4			4		4	4
Tetraethyldithiopyrophosphate 3689-24	-5		4			4		4	4
Oxyfluorfen 42874-03	-3		4			4		4	4
Carbonyl sulfide	463-58-1		4			4		4	4
Vinclozolin 50471-44	-8		4			4		4	4
Thallium acetate	563-68-8		4			4		4	4
Propiconazole 60207-90	-1		4			4		4	4
Avermectin B1	65195-55-3		4			4		4	4
Prometryn 7287-19	-6		4			4		4	4
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4			4		4	4
Dimethyl sulfate	77-78-1		4			4		4	4
Methyl chlorocarbonate	79-22-1		4			4		4	4
Isoxaben 82558-50	-7		4			4		4	4
1,2,4,5-Tetrachlorobenzene 95-94-	3		4			4		4	4
Endosulfan	115-29-7	1,004.653			6,007.3			6,009	3
Dodine 2439-10	-3		3			3		3	3
Aldicarb 116-06	-3		3			3		3	3
Zineb 12122-67	-7		3			3		3	3
Propazine 139-40	-2		3			3		3	3
Aldicarb sulfone	1646-88-4		3			3		3	3
Bromoxynil octanoate	1689-99-2		3			3		3	3
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3			3		3	3
Norflurazon 27314-13	-2		3			3		3	3
Amitraz 33089-61	-1		3			3		3	3
Terbacil 5902-51	-2		3			3		3	3
Nonabromodiphenyl ether	63936-56-1		3			3		3	3
Sethoxydim 74051-80	-2		3			3		3	3
Terbutryn 886-50	-0		3			3		3	3
Fonofos 944-22	-9		3			3		3	3
3,4-Dimethylphenol 95-65-	8		3			3		3	3

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Diphenamid 957-51	-7		3			3		3	3
Benzotrichloride 98-07-	7		3			3		3	3
Merphos oxide	78-48-8	797.88 2			4,770 2			4,772	2
Nitrate	14797-55-8	610.66 2			3,651 2			3,653	2
1,4-Dibromobenzene 106-37	-6		2			2		2	2
Dimethyl terephthalate (DMT)	120-61-6		2			2		2	2
Aramite 140-57	-8		2			2		2	2
Bidrin 141-66	-2		2			2		2	2
Napropamide 15299-99	-7		2			2		2	2
Nitrapyrin 1929-82	-4		2			2		2	2
p,p'-Dibromodiphenyl ether	2050-47-7		2			2		2	2
Octabromodiphenyl ether	32536-52-0		2			2		2	2
Calcium cyanide	592-01-8		2			2		2	2
1,2,4-Tribromobenzene 615-54	-3		2			2		2	2
Acifluorfen, sodium	62476-59-9		2			2		2	2
Sodium fluoroacetate	62-74-8		2			2		2	2
Chlorsulfuron 64902-72	-3		2			2		2	2
Flutolanil 66332-96	-5		2			2		2	2
Fluvalinate 69409-94	-5		2			2		2	2
Imazaquin 81335-37	-7		2			2		2	2
1,2-Diphenylhydrazine	122-66-7	713.90 1			4,268 1			4,269	1
Chlordane (technical)	12789-03-6	602.62 1			3,603 1			3,604	1
Allyl alcohol	107-18-6		1			1		1	1
Furan 110-00	-9		1			1		1	1
Maleic hydrazide	123-33-1		1			1		1	1
Fluometuron 2164-17	-2		1			1		1	1
Triallate 2303-17	-5		1			1		1	1
Thiobencarb 28249-77	-6		1			1		1	1
Linuron 330-55	-2		1			1		1	1
Isopropalin 33820-53	-0		1			1		1	1

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
t-Butyl chloride	507-20-0		1			1		1	1
Diethyl sulfate	64-67-5		1			1		1	1
Thallium carbonate	6533-73-9		1			1		1	1
Thallium (I) sulfate	7446-18-6		1			1		1	1
Bromotrichloromethane 75-62-	7		1			1		1	1
Thallium chloride	7791-12-0		1			1		1	1
Systhane 88671-89	-0		1			1		1	1
Radium 226,228	7440-14-4	828.07	4,951		4,951				
Fluorine, soluble fluoride	7782-41-4	613.28			3,667			3,667	
Nitrite	14797-65-0	612.64	3,663		3,663				
Captafol 2425-06	-1								
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7								
Express	101200-48-0								
Methamidophos 10265-92	-6								
Monchloramine 10599-90	-3								
Chloromethyl methyl ether	107-30-2								
Nickel subsulfide	12035-72-2								
Thallium selenite	12039-52-0								
Propham 122-42	-9								
p-Chlorophenyl methyl sulfide	123-09-1								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5								
Nickel carbonyl	13463-39-3								
Quinalphos 13593-03	-8								
Phenmedipham 13684-63	-4								
Diisopropyl methylphosphonate	1445-75-6								
Alar 1596-84	-5								
Ethephon 16672-87	-0								
Bromoxynil 1689-84	-5								
Isopropyl methyl phosphonic acid	1832-54-8								
Phosolone 2310-17	-0								

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Propargite 2312-35	-8								
Thiophanate-methyl 23564-05	-8								
Mepiquat chloride	24307-26-4								
Pentachlorocyclopentadiene 25329-35	-5								
Pirimiphos-methyl 29232-93	-7								
Asulam 3337-71	-1								
Diazomethane 334-88	-3								
Acetochlor 34256-82	-1								
Diflubenzuron 35367-38	-5								
Imazalil 35554-44	-0								
Hexabromodiphenyl ether	36483-60-0								
Fosetyl-al 39148-24	-8								
Danitol 39515-41	-8								
Tetrabromodiphenyl ether	40088-47-9								
Difenzoquat 43222-48	-6								
Tribromodiphenyl ether	49690-94-0								
Chlorine cyanide	506-77-4								
Bis(chloromethyl) ether	542-88-1								
Carbosulfan 55285-14	-8								
Dimethipin 55290-64	-7								
beta-Propiolactone 57-57-	8								
Tridiphane 58138-08	-2								
Vinyl bromide	593-60-2								
1,1,2-Trichloropropane 598-77	-6								
Furmecyclox 60568-05	-0								
Methyl isocyanate	624-83-9								
Selenourea 630-10	-4								
Cyromazine 66215-27	-8								
Prochloraz 67747-09	-5								
Cyhalothrin/karate 68085-85	-8								

TABLE A-5e. HMIRS and ERPIMS: IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 3.4 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Sites With Detects	ATSDR Score	HMIRS Score	ERPIMS Score	ATSDR HMIRS ERPIMS Combined Score	HMIRS ERPIMS Combined Score
Maximum Possible Number or Score		1,800.00	151,413	6,675	10,000	10,000	10,000	30,000	20,000
Haloxypop-methyl 69806-40	-2								
Propanil 709-98	-8								
Fomasafen 72178-02	-0								
Apollo 74115-24	-5								
Propyleneimine 75-55-	8								
Glycidaldehyde 765-34	-4								
Assure 76578-14	-8								
Glufosinate-ammonium 77182-82	-2								
Trichlorocyclopentadiene 77323-84	-3								
Lactofen 77501-63	-4								
Savey 78587-05	-0								
Harmony 79277-27	-3								
Demeton 8065-48	-3								
Pursuit 81335-77	-5								
Triasulfuron 82097-50	-5								
Londax 83055-99	-6								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0								
Phthalic anhydride	85-44-9								
Nustar 85509-19	-9								
Hexabromobenzene 87-82-	1								
ortho-Anisidine 90-04-	0								
Chlorimuron-ethyl 90982-32	-4								
p-Chlorophenyl methyl sulfoxide	934-73-6								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5								
Methidathion 950-37	-8								
p-Chlorophenyl methyl sulfone	98-57-7								

APPENDIX A-6

Ranking of the USEPA IRIS Chemicals of Interest Using the Number of U.S. Air Force's ERP Sites at Which the Chemical Exceeds the USEPA Region 9 RSLs as the Evaluation Parameter

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font)

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

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TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Arsenic, inorganic	7440-38-2	1448	875	766	1641
Manganese 7439-96	-5	1292	0	0	
Nickel 7440-02	-0	1210	0	0	
Copper 7440-50	-8	1208	23	16	39
Dichloromethane 75-09-	2	1196	16	286	302
Cadmium 7440-43	-9	1191	21	89	110
Trichloroethylene 79-01-	6	1141	46	585	631
Selenium and compounds	7782-49-2	1097	2	27	29
Naphthalene 91-20-	3	1064	160	658	818
Ethylbenzene 100-41	-4	1059	111	432	543
Mercury, elemental	7439-97-6	981	27	133	160
Beryllium and compounds	7440-41-7	948	1	10	11
cis-1,2-Dichloroethylene 156-59	-2	933	1	196	197
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	851	12	325	337
Tetrachloroethylene 127-18	-4	846	42	523	565
Silver 7440-22	-4	816	3	14	17
Antimony 7440-36	-0	816	0	0	0
Fluoranthene 206-44	-0	804	0	0	0
Phenanthrene 85-01-	8	799			
Pyrene 129-00	-0	788	1	1	2
Chrysene 218-01	-9	733	49	68	117
Benzo [a] pyrene	50-32-8	703	534	195	729
Benzo(b)fluoranthene 205-99	-2	698	372	177	549
Benzo(a)anthracene 56-55-	3	693	365	164	529
Benzo[g,h,i]perylene 191-24	-2	610			
trans-1,2-Dichloroethylene 156-60	-5	606	0	57	57
Indeno[1,2,3-cd]pyrene 193-39	-5	604	323	151	474
Cumene 98-82-	8	599	0	6	6
Benzo(k)fluoranthene 207-08	-9	583	135	81	216
Fluorene 86-73-	7	558	1	4	5
Chlorobenzene 108-90	-7	551	1	84	85
Anthracene 120-12	-7	548	0	0	0
1,2-Dichloroethane 107-06	-2	546	3	356	359
Carbon disulfide	75-15-0	539	0	4	4
1,1-Dichloroethane 75-34-	3	528	3	165	168
1,4-Dichlorobenzene 106-46	-7	516	18	258	276
Acenaphthene 83-32-	9	513	1	1	2
1,2-Dichlorobenzene 95-50-	1	473	1	21	22
Dibenzo(a,h)anthracene 53-70-	3	470	330	127	457
Molybdenum 7439-98	-7	465	4	15	19
Methyl tert-butyl ether	1634-04-4	436	1	109	110
Dibutyl phthalate	84-74-2	420	0	1	1

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
1,3-Dichlorobenzene 541-73	-1	388			
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	372	5 10 15		
Bromomethane 74-83-	9	370	0 46 46		
Bromodichloromethane 75-27-	4	369	1 280 281		
1,1,1-Trichloroethane 71-55-	6	355	2 5 7		
1,2,4-Trichlorobenzene 120-82	-1	353	2 61 63		
Trichlorofluoromethane 75-69-	4	353	0 3 3		
Acenaphthylene 208-96	-8	330			
Carbon tetrachloride	56-23-5	329	3 212 215		
Ethyl chloride	75-00-3	327	0 1 1		
Diethyl phthalate	84-66-2	316	0 0 0		
Styrene 100-42	-5	308	0 1 1		
1,1,2-Trichloroethane 79-00-	5	305	6 220 226		
Dichlorodifluoromethane 75-71-	8	293	0 5 5		
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	288	19 19 38		
Dibromochloromethane 124-48	-1	283	2 206 208		
Dibenzofuran 132-64	-9	267			
Dieldrin 60-57-	1	259	73 100 173		
1,2-Dichloropropane 78-87-	5	255	2 130 132		
Butyl benzyl phthalate	85-68-7	249	0 17 17		
Bromoform 75-25-	2	248	0 21 21		
Cyanide, free	57-12-5	215	0 0 0		
Heptachlor epoxide	1024-57-3	209	22 82		104
Hexachlorobutadiene 87-68-	3	202	1 84 85		
1,1,2,2-Tetrachloroethane 79-34-	5	196	6 121 127		
4-Methylphenol 106-44	-5	189	2 14 16		
Heptachlor	76-44-8	184	9 63 72		
Aldrin 309-00	-2	181	16 81 97		
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	177			
gamma-Hexachlorocyclohexane 58-89-	9	166	2 37 39		
Methoxychlor 72-43-	5	165	0 0 0		
Arochlor 1254	11097-69-1	162	81 11 92		
beta-Hexachlorocyclohexane 319-85	-7	162	5 53 58		
2,4-Dimethylphenol 105-67	-9	161	1 7 8		
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	155	4 76 80		
Endrin 72-20-	8	152	0 1 1		
2-Methylphenol 95-48-	7	138	0 3 3		
o-Chlorotoluene 95-49-	8	121	0 0 0		
Pentachlorophenol 87-86-	5	116	4 56 60		
Chromium (VI)	18540-29-9	103	1 18 19		
1,2-Dibromo-3-chloropropane 96-12-	8	102	14 66 80		
N-Nitrosodiphenylamine 86-30-	6	99	0 14 14		
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	98	0 0 0		
2,4-Dinitrotoluene 121-14	-2	97	14 39 53		
1,2,3-Trichloropropane 96-18-	4	96	3 77 80		

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
1,1,1,2-Tetrachloroethane 630-20	-6	83	1 54 55		
Bromochloromethane 74-97-	5	78			
2,4-Dichlorophenol 120-83	-2	73	0 3 3		
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	73			
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	72			
N-Nitroso-di-N-propylamine 621-64	-7	70	17 43 60		
2,6-Dinitrotoluene 606-20	-2	70	0 7 7		
2-Chlorophenol 95-57-	8	66	0 0 0		
Isophorone 78-59-	1	63	0 4 4		
p-Chloroaniline 106-47	-8	62	2 32 34		
p-Nitrophenol 100-02	-7	61			
Nitrobenzene 98-95-	3	56	2 37 39		
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	54	26 19 45		
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	52	1 17 18		
Hexachlorobenzene 118-74	-1	51	10 23 33		
1,4-Dioxane 123-91	-1	51	0 23 23		
Bis(chloroethyl)ether 111-44	-4	50	8 31 39		
2,4,6-Trichlorophenol 88-06-	2	49	0 22 22		
o-Dinitrobenzene 528-29	-0	46	1 33 34		
2,4-Dinitrophenol 51-28-	5	46	0 9 9		
beta-Chloronaphthalene 91-58-	7	46	0 0 0		
Hexachloroethane 67-72-	1	44	0 23 23		
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	43	5 29 34		
2,4,5-Trichlorophenol 95-95-	4	43	0 0 0		
2,4,5-Trichlorophenoxyacetic acid	93-76-5	41	0 0 0		
Bis(2-chloroethoxy)methane 111-91	-1	40	0 1 1		
Aroclor 1016	12674-11-2	39	3 7		10
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	37	2 3 5		
Bis(2-chloroisopropyl) ether	108-60-1	37	0 1 1		
Acetophenone 98-86-	2	34	0 1 1		
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	34	0 0 0		
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	32	0 0 0		
Vinyl acetate	108-05-4	31	0 0 0		
N-Nitrosodimethylamine 62-75-	9	28	2 20 22		
2,4,6-Trinitrotoluene 118-96	-7	28	3 3 6		
Dicamba 1918-00	-9	25	0 0 0		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	24	0 0 0		
Caprolactam 105-60	-2	23	0 0 0		
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	22	0 0 0		
Dalapon (sodium salt)	75-99-0	20	0 0 0		
n-Heptane 142-82	-5	19			
Toxaphene 8001-35	-2	17	1 8 9		
3-Methylphenol 108-39	-4	16	0 0 0		
1,1-Biphenyl 92-52-	4	14	0 0 0		
Chloramben 133-90	-4	13	0 0 0		

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Dinoseb 88-85-	7	13	0 0 0		
Acrylonitrile 107-13	-1	10	1 7 8		
Polychlorinated biphenyls	1336-36-3	10	6		6
Benzaldehyde 100-52	-7	9	0 0 0		
Ethylene glycol	107-21-1	9	0 0 0		
Picloram 1918-02	-1	9	0 0 0		
Vanadium pentoxide	1314-62-1	8	0 0 0		
Ethyl acetate	141-78-6	8	0 0 0		
Uranium, natural	7440-61-1	8	0 0 0		
Pyridine 110-86	-1	7	0 0 0		
2,3,4,6-Tetrachlorophenol 58-90-	2	7	0 0 0		
Aniline 62-	53-3	6	0 0 0		
1,3,5-Trinitrobenzene 99-35-	4	5	0 0 0		
Benzidine 92-87-	5	4	3 1 4		
Benzyl chloride	100-44-7	4	0 0 0		
Dacthal 1861-32	-1	4	0 0 0		
Chlorobenzilate 510-15	-6	4	0 0 0		
Hydrazine/hydrazine sulfate	302-01-2	3	2 3 5		
N-Nitrosodiethylamine 55-18-	5	3	0 2 2		
Azobenzene 103-33	-3	3	0 1 1		
Acetaldehyde 75-07-	0	3	0 1 1		
Diphenylamine 122-39	-4	3	0 0 0		
Methacrylonitrile 126-98	-7	2	0 2 2		
N-Nitroso-di-n-butylamine 924-16	-3	2	0 1 1		
Formic acid	64-18-6	2	0 1 1		
Chromium III, insoluble salts	16065-83-1	2	0 0 0		
Dibromodichloromethane 594-18	-3	2			
N-Nitroso-N-methylethylamine 10595-95	-6	1	0 1 1		
Atrazine 1912-24	-9	1	0 1 1		
Mirex 2385-85	-5	1	0 0 0		
Formaldehyde 50-00-	0	1	0 0 0		
Pentachlorobenzene 608-93	-5	1	0 0 0		
Methanol 67-56-	1	1	0 0 0		
Chlorodifluoromethane 75-45-	6	1	0 0 0		
Chlorine 7782-50	-5	1	0 0 0		
Pentachloronitrobenzene 82-68-	8	1	0 0 0		
N-Nitrosopyrrolidine 930-55	-2	1	0 0 0		
Thallium nitrate	10102-45-1		0 0 0		
Express 101200-4	8-0		0 0 0		
Chlorpropham	101-21-3		0 0 0		
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		0 0 0		
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		0		0
Methamidophos	10265-92-6		0 0 0		
di(2-ethylhexyl)Adipate 103-23	-1		0 0 0		
Resmethrin	10453-86-8		0 0 0		

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Monchloramine	10599-90-3		0 0 0		
1,4-Dibromobenzene	106-37-6		0 0 0		
1,2-Epoxybutane	106-88-7		0 0 0		
Epichlorohydrin	106-89-8		0 0 0		
Allyl chloride	107-05-1		0 0 0		
Ethylene diamine	107-15-3		0 0 0		
Glyphosate 1071-83	-6		0 0 0		
Allyl alcohol	107-18-6		0 0 0		
Propargyl alcohol	107-19-7		0 0 0		
Chloromethyl methyl ether	107-30-2		0 0 0		
Propylene glycol monomethyl ether	107-98-2		0	0	0
Maleic anhydride	108-31-6		0 0 0		
m-Phenylenediamine 108-45	-2		0 0 0		
Cyclohexylamine	108-91-8		0 0 0		
Cyclohexanone 108-94	-1		0 0 0		
1-Chlorobutane 109-69	-3		0 0 0		
2-Methoxyethanol 109-86	-4		0 0 0		
Furan 110-00	-9		0 0 0		
2-Ethoxyethanol 110-80	-5		0 0 0		
N-Nitrosodiethanolamine 1116-54	-7		0 0 0		
Adiponitrile 111-69	-3		0		0
Baygon 114-26	-1		0 0 0		
Endosulfan	115-29-7		0 0 0		
Aldicarb 116-06	-3		0 0 0		
Decabromodiphenyl ether (DBDPE)	1163-19-5		0 0 0		
3,3-Dimethylbenzidine	119-93-7		0 0 0		
Nickel subsulfide	12035-72-2		0 0 0		
Dimethyl terephthalate (DMT)	120-61-6		0	0	0
Zineb	12122-67-7		0 0 0		
Triethylamine	121-44-8		0 0 0		
N,N-Dimethylaniline	121-69-7		0 0 0		
Malathion	121-75-5		0 0 0		
Simazine	122-34-9		0 0 0		
Propham	122-42-9		0 0 0		
1,2-Diphenylhydrazine 122-66	-7		0 0 0		
Hydroquinone	123-31-9		0 0 0		
Maleic hydrazide	123-33-1		0 0 0		
Maneb	12427-38-2		0 0 0		
Chlordane (technical)	12789-03-6		0 0 0		
Antimony trioxide	1309-64-4		0		0
Zinc phosphide	1314-84-7		0 0 0		
4,6-Dinitro-o-cyclohexyl phenol	131-89-5		0 0 0		
Tricresol	1319-77-3		0 0 0		
Captan	133-06-2		0 0 0		
Folpet 133-07	-3		0 0 0		

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Quinalphos	13593-03-8		0 0 0		
Phenmedipham	13684-63-4		0 0 0		
Thiram	137-26-8		0 0 0		
Propazine	139-40-2		0 0 0		
Aramite 140-57	-8		0 0 0		
Bidrin	141-66-2		0 0 0		
Sodium cyanide	143-33-9		0 0 0		
Diisopropyl methylphosphonate	1445-75-6		0 0 0		
Endothall 145-73	-3		0 0 0		
Nitrate	14797-55-8		0 0 0		
Nitrite 14797-65	-0		0 0 0		
Sodium diethyldithiocarbamate	148-18-5		0 0 0		
Merphos	150-50-5		0 0 0		
Potassium cyanide	151-50-8		0 0 0		
Napropamide	15299-99-7		0 0 0		
Carbofuran	1563-66-2		0 0 0		
Trifluralin	1582-09-8		0 0 0		
Alar	1596-84-5		0 0 0		
Alachlor 15972-60	-8		0 0 0		
Prometon 1610-18	-0		0 0 0		
Aldicarb sulfone	1646-88-4		0 0 0		
Ethephon	16672-87-0		0 0 0		
Methomyl	16752-77-5		0 0 0		
Bromoxynil	1689-84-5		0 0 0		
Bromoxynil octanoate	1689-99-2		0 0 0		
Benomyl	17804-35-2		0 0 0		
Isopropyl methyl phosphonic acid	1832-54-8		0 0 0		
Benefin	1861-40-1		0 0 0		
Chlorothalonil	1897-45-6		0 0 0		
Oryzalin	19044-88-3		0 0 0		
Paraquat	1910-42-5		0 0 0		
Propachlor	1918-16-7		0 0 0		
Vernam 1929-77	-7		0 0 0		
Oxadiazon	19666-30-9		0 0 0		
Butylate	2008-41-5		0 0 0		
Aluminum phosphide	20859-73-8		0 0 0		
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		0	0	0
Metribuzin	21087-64-9		0 0 0		
Fluometuron 2164-17	-2		0 0 0		
Cyanazine 21725-46	-2		0 0 0		
Molinate	2212-67-1		0 0 0		
Fenamiphos	22224-92-6		0 0 0		
Triallate 2303-17	-5		0 0 0		
Propargite 2312-35	-8		0 0 0		
Oxamyl	23135-22-0		0 0 0		

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Thiophanate-methyl 23564-05	-8		0 0 0		
Pronamide	23950-58-5		0 0 0		
Captafol 2425-06	-1		0 0 0		
Mepiquat chloride	24307-26-4		0 0 0		
Dodine 2439-10	-3		0 0 0		
Sodium azide	26628-22-8		0 0 0		
Norflurazon	27314-13-2		0 0 0		
Thiobencarb	28249-77-6		0 0 0		
Chlorpyrifos	2921-88-2		0 0 0		
Pirimiphos-methyl	29232-93-7		0 0 0		
Methyl parathion	298-00-0		0 0 0		
Disulfoton	298-04-4		0 0 0		
Naled	300-76-5		0 0 0		
Acephate 30560-19	-1		0 0 0		
Pentabromodiphenyl ether	32534-81-9		0 0 0		
Octabromodiphenyl ether	32536-52-0		0 0 0		
Diuron	330-54-1		0 0 0		
Linuron	330-55-2		0 0 0		
Amitraz	33089-61-1		0 0 0		
Asulam	3337-71-1		0 0 0		
Isopropalin	33820-53-0		0 0 0		
Tebuthiuron	34014-18-1		0 0 0		
Acetochlor	34256-82-1		0 0 0		
Diflubenzuron	35367-38-5		0 0 0		
Imazalil 35554-44	-0		0 0 0		
Iprodione	36734-19-7		0 0 0		
Tetraethyldithiopyrophosphate	3689-24-5		0 0 0		
Fosetyl-al 39148-24	-8		0 0 0		
Danitol	39515-41-8		0 0 0		
Pendimethalin	40487-42-1		0 0 0		
Oxyfluorfen	42874-03-3		0 0 0		
Bayleton 43121-43	-3		0 0 0		
Difenzoquat	43222-48-6		0 0 0		
Cyanogen 460-19	-5		0 0 0		
Vinclozolin	50471-44-8		0 0 0		
Potassium silver cyanide	506-61-6		0	0	0
Silver cyanide	506-64-9		0 0 0		
Chlorine cyanide	506-77-4		0 0 0		
Metolachlor	51218-45-2		0 0 0		
Hexazinone	51235-04-2		0 0 0		
Pydrin	51630-58-1		0 0 0		
Cypermethrin 52315-07	-8		0 0 0		
Carboxin	5234-68-4		0 0 0		
Permethrin	52645-53-1		0 0 0		
Bis(chloromethyl) ether	542-88-1		0 0 0		

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Copper cyanide	544-92-3		0 0 0		
Carbosulfan 55285-14	-8		0 0 0		
Dimethipin	55290-64-7		0 0 0		
Nitroguanidine 556-88	-7		0 0 0		
Zinc cyanide	557-21-1		0 0 0		
Ethion	563-12-2		0 0 0		
Tributyltin oxide	56-35-9		0 0 0		
Thallium acetate	563-68-8		0 0 0		
Parathion	56-38-2		0 0 0		
Strychnine 57-24-	9		0 0 0		
Propylene glycol	57-55-6		0 0 0		
2,6-Dimethylphenol	576-26-1		0 0 0		
Metalaxyl 57837-19	-1		0 0 0		
Tridiphane 58138-08	-2		0 0 0		
Terbacil	5902-51-2		0 0 0		
Calcium cyanide	592-01-8		0 0 0		
Vinyl bromide	593-60-2		0 0 0		
Fluridone	59756-60-4		0 0 0		
1,1,2-Trichloropropane	598-77-6		0 0 0		
Propiconazole	60207-90-1		0 0 0		
Dimethoate 60-51-	5		0 0 0		
Furmecyclox	60568-05-0		0 0 0		
technical Hexachlorocyclohexane (t-HCH)	608-73-1		0 0 0		
1,2,4-Tribromobenzene 615-54	-3		0 0 0		
Phenylmercuric acetate	62-38-4		0 0 0		
Acifluorfen, sodium	62476-59-9		0 0 0		
Dichlorvos	62-73-7		0 0 0		
Sodium fluoroacetate	62-74-8		0 0 0		
Selenourea	630-10-4		0 0 0		
Carbaryl 63-25-	2		0 0 0		
Chlorsulfuron	64902-72-3		0 0 0		
Avermectin B1	65195-55-3		0 0 0		
Thallium carbonate	6533-73-9		0 0 0		
Cyromazine	66215-27-8		0 0 0		
Flutolanil	66332-96-5		0 0 0		
Tralomethrin	66841-25-6		0 0 0		
Amdro	67485-29-4		0 0 0		
Prochloraz	67747-09-5		0 0 0		
Cyhalothrin/karate	68085-85-8		0 0 0		
N,N-Dimethylformamide 68-12-	2		0 0 0		
Baythroid 68359-37	-5		0 0 0		
Fluvalinate	69409-94-5		0 0 0		
Haloxypop-methyl	69806-40-2		0 0 0		
Hexachlorophene	70-30-4		0 0 0		
Propanil 709-98	-8		0 0 0		

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
n-Butanol	71-36-3		0 0 0		
Fomasafen	72178-02-0		0 0 0		
Prometryn	7287-19-6		0 0 0		
Phosmet	732-11-6		0 0 0		
Sethoxydim	74051-80-2		0 0 0		
Apollo 74115-24	-5		0 0 0		
Ally	74223-64-6		0 0 0		
Thallium (I) sulfate	7446-18-6		0 0 0		
Mercuric chloride	7487-94-7		0 0 0		
Hydrogen cyanide	74-90-8		0 0 0		
Propylene oxide	75-56-9		0 0 0		
Cacodylic acid	75-60-5		0 0 0		
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		0	0	0
Glycidaldehyde	765-34-4		0 0 0		
Assure	76578-14-8		0 0 0		
Paclobutrazol	76738-62-0		0 0 0		
Glufosinate-ammonium	77182-82-2		0 0 0		
White phosphorus	7723-14-0		0 0 0		
Lactofen	77501-63-4		0 0 0		
Aluminum sulfamate	7773-06-0		0 0 0		
Fluorine, soluble fluoride	7782-41-4		0	0	0
Selenious acid	7783-00-8		0 0 0		
Thallium chloride	7791-12-0		0 0 0		
Tetraethyl lead	78-00-2		0 0 0		
Phosphine	7803-51-2		0 0 0		
Merphos oxide	78-48-8		0 0 0		
Savey	78587-05-0		0 0 0		
Isobutyl alcohol	78-83-1		0 0 0		
Acrylamide	79-06-1		0 0 0		
Acrylic acid	79-10-7		0 0 0		
Harmony	79277-27-3		0 0 0		
2-Nitropropane	79-46-9		0 0 0		
Bisphenol A	80-05-7		0 0 0		
Demeton	8065-48-3		0 0 0		
1,1,1,2-Tetrafluoroethane	811-97-2		0 0 0		
Imazaquin	81335-37-7		0 0 0		
Pursuit	81335-77-5		0 0 0		
Warfarin	81-81-2		0 0 0		
Triasulfuron	82097-50-5		0 0 0		
1,6-Hexamethylene diisocyanate	822-06-0		0 0 0		
Isoxaben	82558-50-7		0 0 0		
Biphenthrin	82657-04-3		0 0 0		
Londax	83055-99-6		0 0 0		
Ametryn 834-12	-8		0 0 0		
Rotenone 83-79-	4		0 0 0		

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Ethylphthalyl ethylglycolate (EPEG)	84-72-0		0	0	0
Diquat	85-00-7		0 0 0		
Phthalic anhydride	85-44-9		0 0 0		
Nustar	85509-19-9		0 0 0		
Hexabromobenzene	87-82-1		0 0 0		
Terbutryn	886-50-0		0 0 0		
Systhane	88671-89-0		0 0 0		
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		0		0
Chlorimuron-ethyl	90982-32-4		0 0 0		
Fonofos	944-22-9		0 0 0		
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5		0	0	0
Methidathion	950-37-8		0 0 0		
3,4-Dimethylphenol 95-65-	8		0 0 0		
Diphenamid	957-51-7		0 0 0		
2,4-Diaminotoluene	95-80-7		0 0 0		
1,2,4,5-Tetrachlorobenzene	95-94-3		0 0 0		
Tetrachlorovinphos	961-11-5		0 0 0		
Methyl acrylate	96-33-3		0 0 0		
Ethylene thiourea	96-45-7		0 0 0		
Furfural	98-01-1		0 0 0		
Benzotrichloride 98-07-	7		0 0 0		
2-Chloroacetophenone 532-27	-4		0		0
Hydrogen chloride	7647-01-0		0		0
Phosphoric acid	7664-38-2		0		0
Arsine 7784-42	-1		0		0
Pentafluoroethane	354-33-6				
Selenium sulfide	7446-34-6				
Dimethyl sulfate	77-78-1				
Nitric Oxide	10102-43-9				
Quinone	106-51-4				
Thallium selenite	12039-52-0				
p-Chlorophenyl methyl sulfide	123-09-1				
Dimethylamine	124-40-3				
Thallic oxide	1314-32-5				
Asbestos	1332-21-4				
Nickel carbonyl	13463-39-3				
Triethylene glycol monobutyl ether	143-22-6				
Ethyleneimine	151-56-4				
Nitrapyrin	1929-82-4				
p,p'-Dibromodiphenyl ether	2050-47-7				
Phosolone	2310-17-0				
Pentachlorocyclopentadiene	25329-35-5				
Diazomethane 334-88	-3				
Hexabromodiphenyl ether	36483-60-0				
Tetrabromodiphenyl ether	40088-47-9				

TABLE A-6a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Carbonyl sulfide	463-58-1				
Tribromodiphenyl ether	49690-94-0				
4-Aminopyridine	504-24-5				
t-Butyl chloride	507-20-0				
Ethyl carbamate	51-79-6				
Propylene glycol monoethyl ether	52125-53-8				
Barium cyanide	542-62-1				
beta-Propiolactone 57-57-	8				
d-Limonene	5989-27-5				
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7				
Methyl isocyanate	624-83-9				
Ammonium acetate	631-61-8				
Nonabromodiphenyl ether	63936-56-1				
Diethyl sulfate	64-67-5				
Radium 226,228	7440-14-4				
Propyleneimine	75-55-8				
Bromotrichloromethane	75-62-7				
Trichloroacetic acid	76-03-9				
Ammonia	7664-41-7				
Trichlorocyclopentadiene	77323-84-3				
Methyl chlorocarbonate	79-22-1				
Creosote	8001-58-9				
Coke oven emissions	8007-45-2				
ortho-Anisidine	90-04-0				
p-Chlorophenyl methyl sulfoxide	934-73-6				
p-Chlorophenyl methyl sulfone	98-57-7				

* 0 = no RSL exceedances; blank = no RSL

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**TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus
Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs
(Bold Font)**

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Arsenic, inorganic	7440-38-2	1448	875	766	1641
Naphthalene 91-20-	3	1064	160	658	818
Benzo [a] pyrene	50-32-8	703	534	195	729
Trichloroethylene 79-01-	6	1141	46	585	631
Tetrachloroethylene 127-18	-4	846	42	523	565
Benzo(b)fluoranthene 205-99	-2	698	372	177	549
Ethylbenzene 100-41	-4	1059	111	432	543
Benzo(a)anthracene 56-55-	3	693	365	164	529
Indeno[1,2,3-cd]pyrene 193-39	-5	604	323	151	474
Dibenzo(a,h)anthracene 53-70-	3	470	330	127	457
1,2-Dichloroethane 107-06	-2	546	3	356	359
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	851	12	325	337
Dichloromethane 75-09-	2	1196	16	286	302
Bromodichloromethane 75-27-	4	369	1	280	281
1,4-Dichlorobenzene 106-46	-7	516	18	258	276
1,1,2-Trichloroethane 79-00-	5	305	6	220	226
Benzo(k)fluoranthene 207-08	-9	583	135	81	216
Carbon tetrachloride	56-23-5	329	3	212	215
Dibromochloromethane 124-48	-1	283	2	206	208
cis-1,2-Dichloroethylene 156-59	-2	933	1	196	197
Dieldrin 60-57-	1	259	73	100	173
1,1-Dichloroethane 75-34-	3	528	3	165	168
Mercury, elemental	7439-97-6	981	27	133	160
1,2-Dichloropropane 78-87-	5	255	2	130	132
1,1,2,2-Tetrachloroethane 79-34-	5	196	6	121	127
Chrysene 218-01	-9	733	49	68	117
Cadmium 7440-43	-9	1191	21	89	110
Methyl tert-butyl ether	1634-04-4	436	1	109	110
Heptachlor epoxide	1024-57-3	209	22	82	104
Aldrin 309-00	-2	181	16	81	97
Arochlor 1254	11097-69-1	162	81	11	92
Chlorobenzene 108-90	-7	551	1	84	85
Hexachlorobutadiene 87-68-	3	202	1	84	85
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	155	4	76	80
1,2-Dibromo-3-chloropropane 96-12-	8	102	14	66	80
1,2,3-Trichloropropane 96-18-	4	96	3	77	80
Heptachlor	76-44-8	184	9	63	72
1,2,4-Trichlorobenzene 120-82	-1	353	2	61	63
Pentachlorophenol 87-86-	5	116	4	56	60
N-Nitroso-di-N-propylamine 621-64	-7	70	17	43	60
beta-Hexachlorocyclohexane 319-85	-7	162	5	53	58

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
trans-1,2-Dichloroethylene 156-60	-5	606	0	57	57
1,1,1,2-Tetrachloroethane 630-20	-6	83	1	54	55
2,4-Dinitrotoluene 121-14	-2	97	14	39	53
Bromomethane 74-83-	9	370	0	46	46
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	54	26	19	45
Copper 7440-50	-8	1208	23	16	39
gamma-Hexachlorocyclohexane 58-89-	9	166	2	37	39
Nitrobenzene 98-95-	3	56	2	37	39
Bis(chloroethyl)ether 111-44	-4	50	8	31	39
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	288	19	19	38
p-Chloroaniline 106-47	-8	62	2	32	34
o-Dinitrobenzene 528-29	-0	46	1	33	34
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	43	5	29	34
Hexachlorobenzene 118-74	-1	51	10	23	33
Selenium and compounds	7782-49-2	1097	2	27	29
1,4-Dioxane 123-91	-1	51	0	23	23
Hexachloroethane 67-72-	1	44	0	23	23
1,2-Dichlorobenzene 95-50-	1	473	1	21	22
2,4,6-Trichlorophenol 88-06-	2	49	0	22	22
N-Nitrosodimethylamine 62-75-	9	28	2	20	22
Bromoform 75-25-	2	248	0	21	21
Molybdenum 7439-98	-7	465	4	15	19
Chromium (VI)	18540-29-9	103	1	18	19
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2	52	1	17	18
Silver 7440-22	-4	816	3	14	17
Butyl benzyl phthalate	85-68-7	249	0	17	17
4-Methylphenol 106-44	-5	189	2	14	16
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	372	5	10	15
N-Nitrosodiphenylamine 86-30-	6	99	0	14	14
Beryllium and compounds	7440-41-7	948	1	10	11
Arochlor 1016	12674-11-2	39	3	7	10
2,4-Dinitrophenol 51-28-	5	46	0	9	9
Toxaphene 8001-35	-2	17	1	8	9
2,4-Dimethylphenol 105-67	-9	161	1	7	8
Acrylonitrile 107-13	-1	10	1	7	8
1,1,1-Trichloroethane 71-55-	6	355	2	5	7
2,6-Dinitrotoluene 606-20	-2	70	0	7	7
Cumene 98-82-	8	599	0	6	6
2,4,6-Trinitrotoluene 118-96	-7	28	3	3	6
Polychlorinated biphenyls	1336-36-3	10	6		6
Fluorene 86-73-	7	558	1	4	5
Dichlorodifluoromethane 75-71-	8	293	0	5	5
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	37	2	3	5
Hydrazine/hydrazine sulfate	302-01-2	3	2	3	5

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Carbon disulfide	75-15-0	539	0	4	4
Isophorone 78-59-	1	63	0	4	4
Benzidine 92-87-	5	4	3	1	4
Trichlorofluoromethane 75-69-	4	353	0	3	3
2-Methylphenol 95-48-	7	138	0	3	3
2,4-Dichlorophenol 120-83	-2	73	0	3	3
Pyrene 129-00	-0	788	1	1	2
Acenaphthene 83-32-	9	513	1	1	2
N-Nitrosodiethylamine 55-18-	5	3	0	2	2
Methacrylonitrile 126-98	-7	2	0	2	2
Dibutyl phthalate	84-74-2	420	0	1	1
Ethyl chloride	75-00-3	327	0	1	1
Styrene 100-42	-5	308	0	1	1
Endrin 72-20-	8	152	0	1	1
Bis(2-chloroethoxy)methane 111-91	-1	40	0	1	1
Bis(2-chloroisopropyl) ether	108-60-1	37	0	1	1
Acetophenone 98-86-	2	34	0	1	1
Azobenzene 103-33	-3	3	0	1	1
Acetaldehyde 75-07-	0	3	0	1	1
Formic acid	64-18-6	2	0	1	1
N-Nitroso-di-n-butylamine 924-16	-3	2	0	1	1
N-Nitroso-N-methylethylamine 10595-95	-6	1	0	1	1
Atrazine 1912-24	-9	1	0	1	1
Manganese 7439-96	-5	1292	0	0	0
Nickel 7440-02	-0	1210	0	0	0
Antimony 7440-36	-0	816	0	0	0
Fluoranthene 206-44	-0	804	0	0	0
Anthracene 120-12	-7	548	0	0	0
Diethyl phthalate	84-66-2	316	0	0	0
Cyanide, free	57-12-5	215	0	0	0
Methoxychlor 72-43-	5	165	0	0	0
o-Chlorotoluene 95-49-	8	121	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1	98	0	0	0
2-Chlorophenol 95-57-	8	66	0	0	0
beta-Chloronaphthalene 91-58-	7	46	0	0	0
2,4,5-Trichlorophenol 95-95-	4	43	0	0	0
2,4,5-Trichlorophenoxyacetic acid	93-76-5	41	0	0	0
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6	34	0	0	0
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1	32	0	0	0
Vinyl acetate	108-05-4	31	0	0	0
Dicamba 1918-00	-9	25	0	0	0
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	24	0	0	0
Caprolactam 105-60	-2	23	0	0	0
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0	22	0	0	0

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Dalapon (sodium salt)	75-99-0	20	0	0	0
3-Methylphenol 108-39	-4	16	0	0	0
1,1-Biphenyl 92-52-	4	14	0	0	0
Chloramben 133-90	-4	13	0	0	0
Dinoseb 88-85-	7	13	0	0	0
Benzaldehyde 100-52	-7	9	0	0	0
Ethylene glycol	107-21-1	9	0	0	0
Picloram 1918-02	-1	9	0	0	0
Vanadium pentoxide	1314-62-1	8	0	0	0
Ethyl acetate	141-78-6	8	0	0	0
Uranium, natural	7440-61-1	8	0	0	0
Pyridine 110-86	-1	7	0	0	0
2,3,4,6-Tetrachlorophenol 58-90-	2	7	0	0	0
Aniline 62-	53-3	6	0	0	0
1,3,5-Trinitrobenzene 99-35-	4	5	0	0	0
Benzyl chloride	100-44-7	4	0	0	0
Dacthal 1861-32	-1	4	0	0	0
Chlorobenzilate 510-15	-6	4	0	0	0
Diphenylamine 122-39	-4	3	0	0	0
Chromium III, insoluble salts	16065-83-1	2	0	0	0
Mirex 2385-85	-5	1	0	0	0
Formaldehyde 50-00-	0	1	0	0	0
Pentachlorobenzene 608-93	-5	1	0	0	0
Methanol 67-56-	1	1	0	0	0
Chlorodifluoromethane 75-45-	6	1	0	0	0
Chlorine 7782-50	-5	1	0	0	0
Pentachloronitrobenzene 82-68-	8	1	0	0	0
N-Nitrosopyrrolidine 930-55	-2	1	0	0	0
Thallium nitrate	10102-45-1		0	0	0
Express 101200-4	8-0		0	0	0
Chlorpropham 101-21	-3		0	0	0
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		0	0	0
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		0		0
Methamidophos 10265-92	-6		0	0	0
di(2-ethylhexyl)Adipate 103-23	-1		0	0	0
Resmethrin 10453-86	-8		0	0	0
Monchloramine 10599-90	-3		0	0	0
1,4-Dibromobenzene 106-37	-6		0	0	0
1,2-Epoxybutane 106-88	-7		0	0	0
Epichlorohydrin 106-89	-8		0	0	0
Allyl chloride	107-05-1		0	0	0
Ethylene diamine	107-15-3		0	0	0
Glyphosate 1071-83	-6		0	0	0
Allyl alcohol	107-18-6		0	0	0

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Propargyl alcohol	107-19-7		0	0	0
Chloromethyl methyl ether	107-30-2		0	0	0
Propylene glycol monomethyl ether	107-98-2		0	0	0
Maleic anhydride	108-31-6		0	0	0
m-Phenylenediamine 108-45	-2		0	0	0
Cyclohexylamine 108-91	-8		0	0	0
Cyclohexanone 108-94	-1		0	0	0
1-Chlorobutane 109-69	-3		0	0	0
2-Methoxyethanol 109-86	-4		0	0	0
Furan 110-00	-9		0	0	0
2-Ethoxyethanol 110-80	-5		0	0	0
N-Nitrosodiethanolamine 1116-54	-7		0	0	0
Adiponitrile 111-69	-3		0		0
Baygon 114-26	-1		0	0	0
Endosulfan 115-29	-7		0	0	0
Aldicarb 116-06	-3		0	0	0
Decabromodiphenyl ether (DBDPE)	1163-19-5		0	0	0
3,3-Dimethylbenzidine 119-93	-7		0	0	0
Nickel subsulfide	12035-72-2		0	0	0
Dimethyl terephthalate (DMT)	120-61-6		0	0	0
Zineb 12122-67	-7		0	0	0
Triethylamine 121-44	-8		0	0	0
N,N-Dimethylaniline 121-69	-7		0	0	0
Malathion 121-75	-5		0	0	0
Simazine 122-34	-9		0	0	0
Propham 122-42	-9		0	0	0
1,2-Diphenylhydrazine 122-66	-7		0	0	0
Hydroquinone 123-31	-9		0	0	0
Maleic hydrazide	123-33-1		0	0	0
Maneb 12427-38	-2		0	0	0
Chlordane (technical)	12789-03-6		0	0	0
Antimony trioxide	1309-64-4		0		0
Zinc phosphide	1314-84-7		0	0	0
4,6-Dinitro-o-cyclohexyl phenol	131-89-5		0	0	0
Tricresol 1319-77	-3		0	0	0
Captan 133-06	-2		0	0	0
Folpet 133-07	-3		0	0	0
Quinalphos 13593-03	-8		0	0	0
Phenmedipham 13684-63	-4		0	0	0
Thiram 137-26	-8		0	0	0
Propazine 139-40	-2		0	0	0
Aramite 140-57	-8		0	0	0
Bidrin 141-66	-2		0	0	0
Sodium cyanide	143-33-9		0	0	0

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Diisopropyl methylphosphonate	1445-75-6		0	0	0
Endothall 145-73	-3		0	0	0
Nitrate 14797-55	-8		0	0	0
Nitrite 14797-65	-0		0	0	0
Sodium diethyldithiocarbamate	148-18-5		0	0	0
Merphos 150-50	-5		0	0	0
Potassium cyanide	151-50-8		0	0	0
Napropamide 15299-99	-7		0	0	0
Carbofuran 1563-66	-2		0	0	0
Trifluralin 1582-09	-8		0	0	0
Alar 1596-84	-5		0	0	0
Alachlor 15972-60	-8		0	0	0
Prometon 1610-18	-0		0	0	0
Aldicarb sulfone	1646-88-4		0	0	0
Ethephon 16672-87	-0		0	0	0
Methomyl 16752-77	-5		0	0	0
Bromoxynil 1689-84	-5		0	0	0
Bromoxynil octanoate	1689-99-2		0	0	0
Benomyl 17804-35	-2		0	0	0
Isopropyl methyl phosphonic acid	1832-54-8		0	0	0
Benefin 1861-40	-1		0	0	0
Chlorothalonil 1897-45	-6		0	0	0
Oryzalin 19044-88	-3		0	0	0
Paraquat 1910-42	-5		0	0	0
Propachlor 1918-16	-7		0	0	0
Vernam 1929-77	-7		0	0	0
Oxadiazon 19666-30	-9		0	0	0
Butylate 2008-41	-5		0	0	0
Aluminum phosphide	20859-73-8		0	0	0
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		0	0	0
Metribuzin 21087-64	-9		0	0	0
Fluometuron 2164-17	-2		0	0	0
Cyanazine 21725-46	-2		0	0	0
Molinate 2212-67	-1		0	0	0
Fenamiphos 22224-92	-6		0	0	0
Triallate 2303-17	-5		0	0	0
Propargite 2312-35	-8		0	0	0
Oxamyl 23135-22	-0		0	0	0
Thiophanate-methyl 23564-05	-8		0	0	0
Pronamide 23950-58	-5		0	0	0
Captafol 2425-06	-1		0	0	0
Mepiquat chloride	24307-26-4		0	0	0
Dodine 2439-10	-3		0	0	0
Sodium azide	26628-22-8		0	0	0

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Norflurazon 27314-13	-2		0	0	0
Thiobencarb 28249-77	-6		0	0	0
Chlorpyrifos 2921-88	-2		0	0	0
Pirimiphos-methyl 29232-93	-7		0	0	0
Methyl parathion	298-00-0		0	0	0
Disulfoton 298-04	-4		0	0	0
Naled 300-76	-5		0	0	0
Acephate 30560-19	-1		0	0	0
Pentabromodiphenyl ether	32534-81-9		0	0	0
Octabromodiphenyl ether	32536-52-0		0	0	0
Diuron 330-54	-1		0	0	0
Linuron 330-55	-2		0	0	0
Amitraz 33089-61	-1		0	0	0
Asulam 3337-71	-1		0	0	0
Isopropalin 33820-53	-0		0	0	0
Tebuthiuron 34014-18	-1		0	0	0
Acetochlor 34256-82	-1		0	0	0
Diflubenzuron 35367-38	-5		0	0	0
Imazalil 35554-44	-0		0	0	0
Iprodione 36734-19	-7		0	0	0
Tetraethyldithiopyrophosphate 3689-24	-5		0	0	0
Fosetyl-al 39148-24	-8		0	0	0
Danitol 39515-41	-8		0	0	0
Pendimethalin 40487-42	-1		0	0	0
Oxyfluorfen 42874-03	-3		0	0	0
Bayleton 43121-43	-3		0	0	0
Difenzoquat 43222-48	-6		0	0	0
Cyanogen 460-19	-5		0	0	0
Vinclozolin 50471-44	-8		0	0	0
Potassium silver cyanide	506-61-6		0	0	0
Silver cyanide	506-64-9		0	0	0
Chlorine cyanide	506-77-4		0	0	0
Metolachlor 51218-45	-2		0	0	0
Hexazinone 51235-04	-2		0	0	0
Pydrin 51630-58	-1		0	0	0
Cypermethrin 52315-07	-8		0	0	0
Carboxin 5234-68	-4		0	0	0
Permethrin 52645-53	-1		0	0	0
2-Chloroacetophenone 532-27	-4		0		0
Bis(chloromethyl) ether	542-88-1		0	0	0
Copper cyanide	544-92-3		0	0	0
Carbosulfan 55285-14	-8		0	0	0
Dimethipin 55290-64	-7		0	0	0
Nitroguanidine 556-88	-7		0	0	0

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Zinc cyanide	557-21-1		0	0	0
Ethion 563-12	-2		0	0	0
Tributyltin oxide	56-35-9		0	0	0
Thallium acetate	563-68-8		0	0	0
Parathion 56-38-	2		0	0	0
Strychnine 57-24-	9		0	0	0
Propylene glycol	57-55-6		0	0	0
2,6-Dimethylphenol 576-26	-1		0	0	0
Metalaxyl 57837-19	-1		0	0	0
Tridiphane 58138-08	-2		0	0	0
Terbacil 5902-51	-2		0	0	0
Calcium cyanide	592-01-8		0	0	0
Vinyl bromide	593-60-2		0	0	0
Fluridone 59756-60	-4		0	0	0
1,1,2-Trichloropropane 598-77	-6		0	0	0
Propiconazole 60207-90	-1		0	0	0
Dimethoate 60-51-	5		0	0	0
Furmecyclox 60568-05	-0		0	0	0
technical Hexachlorocyclohexane (t-HCH)	608-73-1		0	0	0
1,2,4-Tribromobenzene 615-54	-3		0	0	0
Phenylmercuric acetate	62-38-4		0	0	0
Acifluorfen, sodium	62476-59-9		0	0	0
Dichlorvos 62-73-	7		0	0	0
Sodium fluoroacetate	62-74-8		0	0	0
Selenourea 630-10	-4		0	0	0
Carbaryl 63-25-	2		0	0	0
Chlorsulfuron 64902-72	-3		0	0	0
Avermectin B1	65195-55-3		0	0	0
Thallium carbonate	6533-73-9		0	0	0
Cyromazine 66215-27	-8		0	0	0
Flutolanil 66332-96	-5		0	0	0
Tralomethrin 66841-25	-6		0	0	0
Amdro 67485-29	-4		0	0	0
Prochloraz 67747-09	-5		0	0	0
Cyhalothrin/karate 68085-85	-8		0	0	0
N,N-Dimethylformamide 68-12-	2		0	0	0
Baythroid 68359-37	-5		0	0	0
Fluvalinate 69409-94	-5		0	0	0
Haloxypop-methyl 69806-40	-2		0	0	0
Hexachlorophene 70-30-	4		0	0	0
Propanil 709-98	-8		0	0	0
n-Butanol 71-36-	3		0	0	0
Fomasafen 72178-02	-0		0	0	0
Prometryn 7287-19	-6		0	0	0

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Phosmet 732-11	-6		0	0	0
Sethoxydim 74051-80	-2		0	0	0
Apollo 74115-24	-5		0	0	0
Ally 74223-64	-6		0	0	0
Thallium (I) sulfate	7446-18-6		0	0	0
Mercuric chloride	7487-94-7		0	0	0
Hydrogen cyanide	74-90-8		0	0	0
Propylene oxide	75-56-9		0	0	0
Cacodylic acid	75-60-5		0	0	0
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		0	0	0
Hydrogen chloride	7647-01-0		0		0
Glycidaldehyde 765-34	-4		0	0	0
Assure 76578-14	-8		0	0	0
Phosphoric acid	7664-38-2		0		0
Paclobutrazol 76738-62	-0		0	0	0
Glufosinate-ammonium 77182-82	-2		0	0	0
White phosphorus	7723-14-0		0	0	0
Lactofen 77501-63	-4		0	0	0
Aluminum sulfamate	7773-06-0		0	0	0
Fluorine, soluble fluoride	7782-41-4		0	0	0
Selenious acid	7783-00-8		0	0	0
Arsine 7784-42	-1		0		0
Thallium chloride	7791-12-0		0	0	0
Tetraethyl lead	78-00-2		0	0	0
Phosphine 7803-51	-2		0	0	0
Merphos oxide	78-48-8		0	0	0
Savey 78587-05	-0		0	0	0
Isobutyl alcohol	78-83-1		0	0	0
Acrylamide 79-06-	1		0	0	0
Acrylic acid	79-10-7		0	0	0
Harmony 79277-27	-3		0	0	0
2-Nitropropane 79-46-	9		0	0	0
Bisphenol A	80-05-7		0	0	0
Demeton 8065-48	-3		0	0	0
1,1,1,2-Tetrafluoroethane 811-97	-2		0	0	0
Imazaquin 81335-37	-7		0	0	0
Pursuit 81335-77	-5		0	0	0
Warfarin 81-81-	2		0	0	0
Triasulfuron 82097-50	-5		0	0	0
1,6-Hexamethylene diisocyanate	822-06-0		0	0	0
Isoxaben 82558-50	-7		0	0	0
Biphenthrin 82657-04	-3		0	0	0
Londax 83055-99	-6		0	0	0
Ametryn 834-12	-8		0	0	0

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Rotenone 83-79-	4		0	0	0
Ethylphthalyl ethylglycolate (EPEG)	84-72-0		0	0	0
Diquat 85-00-	7		0	0	0
Phthalic anhydride	85-44-9		0	0	0
Nustar 85509-19	-9		0	0	0
Hexabromobenzene 87-82-	1		0	0	0
Terbutryn 886-50	-0		0	0	0
Systhane 88671-89	-0		0	0	0
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		0		0
Chlorimuron-ethyl 90982-32	-4		0	0	0
Fonofos 944-22	-9		0	0	0
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5		0	0	0
Methidathion 950-37	-8		0	0	0
3,4-Dimethylphenol 95-65-	8		0	0	0
Diphenamid 957-51	-7		0	0	0
2,4-Diaminotoluene 95-80-	7		0	0	0
1,2,4,5-Tetrachlorobenzene 95-94-	3		0	0	0
Tetrachlorovinphos 961-11	-5		0	0	0
Methyl acrylate	96-33-3		0	0	0
Ethylene thiourea	96-45-7		0	0	0
Furfural 98-01-	1		0	0	0
Benzotrithloride 98-07-	7		0	0	0
Phenanthrene	85-01-8	799			
Benzo[g,h,i]perylene	191-24-2	610			
1,3-Dichlorobenzene	541-73-1	388			
Acenaphthylene	208-96-8	330			
Dibenzofuran	132-64-9	267			
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	177			
Bromochloromethane	74-97-5	78			
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7	73			
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3	72			
p-Nitrophenol	100-02-7	61			
n-Heptane	142-82-5	19			
Dibromodichloromethane	594-18-3	2			
Nitric Oxide	10102-43-9				
Quinone	106-51-4				
Thallium selenite	12039-52-0				
p-Chlorophenyl methyl sulfide	123-09-1				
Dimethylamine	124-40-3				
Thallic oxide	1314-32-5				
Asbestos	1332-21-4				
Nickel carbonyl	13463-39-3				
Triethylene glycol monobutyl ether	143-22-6				
Ethyleneimine	151-56-4				

TABLE A-6b. IRIS Chemicals of Interest Ranked by the Number of Soil Sites plus Groundwater Sites with Concentrations that Exceed the Residential Soil and Tap Water RSLs (Bold Font)

(Cont.)

CHEMICAL NAME	CASRN	Sites With Detects	Sites with Soil Concentrations > Residential Soil RSL*	Sites with Groundwater Concentrations > Tap Water RSL*	Soil Sites + Groundwater Sites with Concentrations > RSLs*
Nitrapyrin	1929-82-4				
p,p'-Dibromodiphenyl ether	2050-47-7				
Phosolone	2310-17-0				
Pentachlorocyclopentadiene	25329-35-5				
Diazomethane	334-88-3				
Pentafluoroethane	354-33-6				
Hexabromodiphenyl ether	36483-60-0				
Tetrabromodiphenyl ether	40088-47-9				
Carbonyl sulfide	463-58-1				
Tribromodiphenyl ether	49690-94-0				
4-Aminopyridine	504-24-5				
t-Butyl chloride	507-20-0				
Ethyl carbamate	51-79-6				
Propylene glycol monoethyl ether	52125-53-8				
Barium cyanide	542-62-1				
beta-Propiolactone	57-57-8				
d-Limonene	5989-27-5				
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7				
Methyl isocyanate	624-83-9				
Ammonium acetate	631-61-8				
Nonabromodiphenyl ether	63936-56-1				
Diethyl sulfate	64-67-5				
Radium 226,228	7440-14-4				
Selenium sulfide	7446-34-6				
Propyleneimine	75-55-8				
Bromotrichloromethane	75-62-7				
Trichloroacetic acid	76-03-9				
Ammonia	7664-41-7				
Trichlorocyclopentadiene	77323-84-3				
Dimethyl sulfate	77-78-1				
Methyl chlorocarbonate	79-22-1				
Creosote	8001-58-9				
Coke oven emissions	8007-45-2				
ortho-Anisidine	90-04-0				
p-Chlorophenyl methyl sulfoxide	934-73-6				
p-Chlorophenyl methyl sulfone	98-57-7				

* 0 = no RSL exceedances; blank = no RSL

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APPENDIX A-7

Ranking of the USEPA IRIS Chemicals of Interest Using ATSDR, HMIRS, and ERPIMS (Number of Sites at Which the Chemical Concentration Exceeds the USEPA Region 9 RSLs) Combined Scoring

- TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font)
- TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details)
- TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details)

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TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,641
Naphthalene 91-20-	3	896.67	1,635	818
Benzo [a] pyrene	50-32-8	1,312.45	41	729
Trichloroethylene 79-01-	6	1,154.73	568	631
Tetrachloroethylene 127-18	-4	1,080.43	929	565
Benzo(b)fluoranthene 205-99	-2	1,266.55	25	549
Ethylbenzene 100-41	-4	832.13	10,696	543
Benzo(a)anthracene 56-55-	3	1,057.96	33	529
Indeno[1,2,3-cd]pyrene 193-39	-5	703.30	23	474
Dibenzo(a,h)anthracene 53-70-	3	1,165.88	23	457
1,2-Dichloroethane 107-06	-2	863.99	440	359
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	337
Dichloromethane 75-09-	2	888.96	4,136	302
Bromodichloromethane 75-27-	4		50	281
1,4-Dichlorobenzene 106-46	-7	737.32	246	276
1,1,2-Trichloroethane 79-00-	5	724.96	51	226
Benzo(k)fluoranthene 207-08	-9	981.26	24	216
Carbon tetrachloride	56-23-5	1,023.32	292	215
Dibromochloromethane 124-48	-1	580.59	48	208
cis-1,2-Dichloroethylene 156-59	-2	533.15	27	197
Dieldrin 60-57-	1	1,150.91	45	173
1,1-Dichloroethane 75-34-	3	736.23	45	168
Mercury, elemental	7439-97-6	1,504.69	1,588	160
1,2-Dichloropropane 78-87-	5		51	132
1,1,2,2-Tetrachloroethane 79-34-	5	782.15	43	127
Chrysene 218-01	-9	802.10	34	117
Methyl tert-butyl ether	1634-04-4		742	110
Cadmium 7440-43	-9	1,324.22	1,970	110
Heptachlor epoxide	1024-57-3	1,027.12	45	104
Aldrin 309-00	-2	1,117.22	44	97
Arochlor 1254	11097-69-1	1,182.63	70	92
Chlorobenzene 108-90	-7	819.69	213	85
Hexachlorobutadiene 87-68-	3	1,129.63		85
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	80
1,2-Dibromo-3-chloropropane 96-12-	8	1,035.55	30	80
1,2,3-Trichloropropane 96-18-	4		20	80
Heptachlor	76-44-8	1,072.67	54	72
1,2,4-Trichlorobenzene 120-82	-1	647.30	56	63
N-Nitroso-di-N-propylamine 621-64	-7	811.05	23	60
Pentachlorophenol 87-86-	5	1,028.01	110	60

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
beta-Hexachlorocyclohexane 319-85	-7	1,060.22	29	58
trans-1,2-Dichloroethylene 156-60	-5	704.04	136	57
1,1,1,2-Tetrachloroethane 630-20	-6		19	55
2,4-Dinitrotoluene 121-14	-2	837.88	43	53
Bromomethane 74-83-	9		63	46
p,p'-Dichlorodiphenyldichloro-ethylene 72-55-	9	1,132.49	37	45
Bis(chloroethyl)ether 111-44	-4	859.88	20	39
gamma-Hexachlorocyclohexane 58-89-	9	1,081.63	82	39
Copper 7440-50	-8	804.86	6,993	39
Nitrobenzene 98-95-	3		37	39
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	38
p-Chloroaniline 106-47	-8		8	34
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	34
o-Dinitrobenzene 528-29	-0			34
Hexachlorobenzene 118-74	-1	838.34	88	33
Selenium and compounds	7782-49-2	778.98	296	29
1,4-Dioxane 123-91	-1	616.29	623	23
Hexachloroethane 67-72-	1	653.10	39	23
N-Nitrosodimethylamine 62-75-	9	650.71	16	22
2,4,6-Trichlorophenol 88-06-	2	863.71	35	22
1,2-Dichlorobenzene 95-50-	1	704.91	249	22
Bromoform 75-25-	2	643.53	68	21
Chromium (VI)	18540-29-9	1,149.98	147	19
Molybdenum 7439-98	-7		3,186	19
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	18
Silver 7440-22	-4	612.19	2,491	17
Butyl benzyl phthalate	85-68-7	659.38	1,070	17
4-Methylphenol 106-44	-5	707.83	39	16
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	15
N-Nitrosodiphenylamine 86-30-	6	624.79	29	14
Beryllium and compounds	7440-41-7	1,046.12	379	11
Arochlor 1016	12674-11-2	1,014.33	41	10
2,4-Dinitrophenol 51-28-	5	860.45	34	9
Toxaphene 8001-35	-2	1,086.65	24	9
2,4-Dimethylphenol 105-67	-9	685.76	26	8
Acrylonitrile 107-13	-1	528.28	265	8
2,6-Dinitrotoluene 606-20	-2	555.20	20	7
1,1,1-Trichloroethane 71-55-	6	833.81	3,552	7
2,4,6-Trinitrotoluene 118-96	-7	883.59	51	6
Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	6
Cumene 98-82-	8		1,632	6
Hydrazine/hydrazine sulfate	302-01-2	864.41	69	5
Dichlorodifluoromethane 75-71-	8		953	5

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Fluorene 86-73-	7		19	5
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	5
Carbon disulfide	75-15-0	702.55	40	4
Isophorone 78-59-	1		237	4
Benzidine 92-87-	5	1,114.24	23	4
2,4-Dichlorophenol 120-83	-2	616.45		3
Trichlorofluoromethane 75-69-	4		535	3
2-Methylphenol 95-48-	7	658.66	103	3
Methacrylonitrile 126-98	-7		2	2
Pyrene 129-00	-0	577.95	30	2
N-Nitrosodiethylamine 55-18-	5		1	2
Acenaphthene 83-32-	9	731.25	37	2
Styrene 100-42	-5	532.70	1,646	1
Azobenzene 103-33	-3		17	1
N-Nitroso-N-methylethylamine 10595-95	-6		1	1
Bis(2-chloroisopropyl) ether	108-60-1		14	1
Bis(2-chloroethoxy)methane 111-91	-1		14	1
Atrazine 1912-24	-9		37	1
Formic acid	64-18-6		271	1
Endrin 72-20-	8	1,048.57	58	1
Ethyl chloride	75-00-3	693.90	64	1
Acetaldehyde 75-07-	0		323	1
Dibutyl phthalate	84-74-2	1,007.49	1,132	1
N-Nitroso-di-n-butylamine 924-16	-3		2	1
Acetophenone 98-86-	2		14	1
Benzyl chloride	100-44-7		7	0
Benzaldehyde 100-52	-7		101	0
Thallium nitrate	10102-45-1		27	0
Express 101200-4	8-0			0
Chlorpropham 101-21	-3		8	0
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	0
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	0
Methamidophos 10265-92	-6			0
di(2-ethylhexyl)Adipate 103-23	-1	540.20	50	0
Resmethrin 10453-86	-8		86	0
Caprolactam 105-60	-2		23	0
Monchloramine 10599-90	-3			0
1,4-Dibromobenzene 106-37	-6		2	0
1,2-Epoxybutane 106-88	-7		300	0
Epichlorohydrin 106-89	-8		559	0
Allyl chloride	107-05-1		4	0
Ethylene diamine	107-15-3		377	0
Glyphosate 1071-83	-6		33	0

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Allyl alcohol	107-18-6		1	0
Propargyl alcohol	107-19-7		17	0
Ethylene glycol	107-21-1		10,234	0
Chloromethyl methyl ether	107-30-2			0
Propylene glycol monomethyl ether	107-98-2		2,048	0
Vinyl acetate	108-05-4		953	0
Maleic anhydride	108-31-6		21	0
3-Methylphenol 108-39	-4		43	0
m-Phenylenediamine 108-45	-2		89	0
Cyclohexylamine 108-91	-8		154	0
Cyclohexanone 108-94	-1		2,829	0
1-Chlorobutane 109-69	-3		14	0
2-Methoxyethanol 109-86	-4		559	0
Furan 110-00	-9		1	0
2-Ethoxyethanol 110-80	-5		688	0
Pyridine 110-86	-1		83	0
N-Nitrosodiethanolamine 1116-54	-7		4	0
Adiponitrile 111-69	-3		4	0
Baygon 114-26	-1		106	0
Endosulfan 115-29	-7	1,004.65	3	0
Aldicarb 116-06	-3		3	0
Decabromodiphenyl ether (DBDPE)	1163-19-5		56	0
3,3-Dimethylbenzidine 119-93	-7		14	0
Anthracene 120-12	-7		38	0
Nickel subsulfide	12035-72-2			0
Dimethyl terephthalate (DMT)	120-61-6		2	0
Zineb 12122-67	-7		3	0
Triethylamine 121-44	-8		459	0
N,N-Dimethylaniline 121-69	-7		68	0
Malathion 121-75	-5		80	0
Simazine 122-34	-9		46	0
Diphenylamine 122-39	-4		123	0
Propham 122-42	-9			0
1,2-Diphenylhydrazine 122-66	-7	713.90	1	0
Hydroquinone 123-31	-9		2,337	0
Maleic hydrazide	123-33-1		1	0
Maneb 12427-38	-2		6	0
Chlordane (technical)	12789-03-6	602.62	1	0
Antimony trioxide	1309-64-4		906	0
Vanadium pentoxide	1314-62-1		587	0
Zinc phosphide	1314-84-7		19	0
4,6-Dinitro-o-cyclohexyl phenol	131-89-5			0
Tricresol 1319-77	-3	602.74	272	0

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Captan 133-06	-2		10	0
Folpet 133-07	-3		68	0
Chloramben 133-90	-4		6	0
Quinalphos 13593-03	-8			0
Phenmedipham 13684-63	-4			0
Thiram 137-26	-8		93	0
Propazine 139-40	-2		3	0
Aramite 140-57	-8		2	0
Bidrin 141-66	-2		2	0
Ethyl acetate	141-78-6		4,385	0
Sodium cyanide	143-33-9		90	0
Diisopropyl methylphosphonate	1445-75-6			0
Endothall 145-73	-3		8	0
Nitrate 14797-55	-8	610.66	2	0
Nitrite 14797-65	-0	612.64		0
Sodium diethyldithiocarbamate	148-18-5		7	0
Merphos 150-50	-5		6	0
Potassium cyanide	151-50-8		161	0
Napropamide 15299-99	-7		2	0
Carbofuran 1563-66	-2		4	0
Trifluralin 1582-09	-8	770.12	27	0
Alar 1596-84	-5			0
Alachlor 15972-60	-8		19	0
Chromium III, insoluble salts	16065-83-1		118	0
Prometon 1610-18	-0		28	0
Aldicarb sulfone	1646-88-4		3	0
Ethephon 16672-87	-0			0
Methomyl 16752-77	-5		22	0
Bromoxynil 1689-84	-5			0
Bromoxynil octanoate	1689-99-2		3	0
Benomyl 17804-35	-2		6	0
Isopropyl methyl phosphonic acid	1832-54-8			0
Dacthal 1861-32	-1		20	0
Benefin 1861-40	-1		16	0
Chlorothalonil 1897-45	-6		205	0
Oryzalin 19044-88	-3		13	0
Paraquat 1910-42	-5		8	0
Dicamba 1918-00	-9		58	0
Picloram 1918-02	-1		10	0
Propachlor 1918-16	-7		14	0
Vernam 1929-77	-7		7	0
Oxadiazon 19666-30	-9		14	0
Butylate 2008-41	-5	578.43	5	0

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Fluoranthene 206-44	-0	812.40	32	0
Aluminum phosphide	20859-73-8		19	0
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	0
Metribuzin 21087-64	-9		16	0
Fluometuron 2164-17	-2		1	0
Cyanazine 21725-46	-2		4	0
Molinate 2212-67	-1		5	0
Fenamiphos 22224-92	-6		6	0
Triallate 2303-17	-5		1	0
Propargite 2312-35	-8			0
Oxamyl 23135-22	-0		5	0
Thiophanate-methyl 23564-05	-8			0
Mirex 2385-85	-5			0
Pronamide 23950-58	-5		8	0
Captafol 2425-06	-1			0
Mepiquat chloride	24307-26-4			0
Dodine 2439-10	-3		3	0
Sodium azide	26628-22-8		1,100	0
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0		46	0
Norflurazon 27314-13	-2		3	0
Thiobencarb 28249-77	-6		1	0
Chlorpyrifos 2921-88	-2	804.93	166	0
Pirimiphos-methyl 29232-93	-7			0
Methyl parathion	298-00-0	545.83	7	0
Disulfoton 298-04	-4	1,058.85	25	0
Naled 300-76	-5	602.32	18	0
Acephate 30560-19	-1		30	0
Pentabromodiphenyl ether	32534-81-9		14	0
Octabromodiphenyl ether	32536-52-0		2	0
Diuron 330-54	-1	579.16	72	0
Linuron 330-55	-2		1	0
Amitraz 33089-61	-1		3	0
Asulam 3337-71	-1			0
Isopropalin 33820-53	-0		1	0
Tebuthiuron 34014-18	-1		17	0
Acetochlor 34256-82	-1			0
Diflubenzuron 35367-38	-5			0
Pentafluoroethane 354-33	-6		86	0
Imazalil 35554-44	-0			0
Iprodione 36734-19	-7		14	0
Tetraethyldithiopyrophosphate 3689-24	-5		4	0
Fosetyl-al 39148-24	-8			0
Danitol 39515-41	-8			0

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Pendimethalin 40487-42	-1		32	0
Oxyfluorfen 42874-03	-3		4	0
Bayleton 43121-43	-3		15	0
Difenzoquat 43222-48	-6			0
Cyanogen 460-19	-5		6	0
Formaldehyde 50-00-	0	599.64		0
Vinclozolin 50471-44	-8		4	0
Potassium silver cyanide	506-61-6		14	0
Silver cyanide	506-64-9		29	0
Chlorine cyanide	506-77-4			0
Chlorobenzilate 510-15	-6		12	0
Metolachlor 51218-45	-2		9	0
Hexazinone 51235-04	-2		29	0
Pydrin 51630-58	-1		14	0
Cypermethrin 52315-07	-8		26	0
Carboxin 5234-68	-4		5	0
Permethrin 52645-53	-1		103	0
Bis(chloromethyl) ether	542-88-1			0
Copper cyanide	544-92-3		20	0
Carbosulfan 55285-14	-8			0
Dimethipin 55290-64	-7			0
Nitroguanidine 556-88	-7		5	0
Zinc cyanide	557-21-1		9	0
Ethion 563-12	-2	834.03	6	0
Tributyltin oxide	56-35-9		106	0
Thallium acetate	563-68-8		4	0
Parathion 56-38-	2	784.14	8	0
Cyanide, free	57-12-5	1,099.48	48	0
Strychnine 57-24-	9		7	0
Propylene glycol	57-55-6		4,063	0
2,6-Dimethylphenol 576-26	-1		12	0
Metalaxyl 57837-19	-1		10	0
Tridiphane 58138-08	-2			0
2,3,4,6-Tetrachlorophenol 58-90-	2		6	0
Terbacil 5902-51	-2		3	0
Calcium cyanide	592-01-8		2	0
Vinyl bromide	593-60-2			0
Fluridone 59756-60	-4		8	0
1,1,2-Trichloropropane 598-77	-6			0
Propiconazole 60207-90	-1		4	0
Dimethoate 60-51-	5	602.61	11	0
Furmecyclox 60568-05	-0			0
technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	0

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Pentachlorobenzene 608-93	-5	753.58	4	0
1,2,4-Tribromobenzene 615-54	-3		2	0
Phenylmercuric acetate	62-38-4		240	0
Acifluorfen, sodium	62476-59-9		2	0
Aniline 62-53-3			140	0
Dichlorvos 62-73-	7	601.64	49	0
Sodium fluoroacetate	62-74-8		2	0
Selenourea 630-10	-4			0
Carbaryl 63-25-	2	530.98	93	0
Chlorsulfuron 64902-72	-3		2	0
Avermectin B1	65195-55-3		4	0
Thallium carbonate	6533-73-9		1	0
Cyromazine 66215-27	-8			0
Flutolanil 66332-96	-5		2	0
Tralomethrin 66841-25	-6		6	0
Amdro 67485-29	-4		77	0
Methanol 67-56-	1		7,659	0
Prochloraz 67747-09	-5			0
Cyhalothrin/karate 68085-85	-8			0
N,N-Dimethylformamide 68-12-	2	578.23	363	0
Baythroid 68359-37	-5		50	0
Fluvalinate 69409-94	-5		2	0
Haloxypop-methyl 69806-40	-2			0
Hexachlorophene 70-30-	4		24	0
Propanil 709-98	-8			0
n-Butanol 71-36-	3		6,253	0
Fomasafen 72178-02	-0			0
Methoxychlor 72-43-	5	994.47	63	0
Prometryn 7287-19	-6		4	0
Phosmet 732-11	-6		5	0
Sethoxydim 74051-80	-2		3	0
Apollo 74115-24	-5			0
Ally 74223-64	-6		6	0
Manganese 7439-96	-5	807.90	7,411	0
Nickel 7440-02	-0	1,005.40	7,850	0
Antimony 7440-36	-0	605.37	2,105	0
Uranium, natural	7440-61-1	833.41	59	0
Thallium (I) sulfate	7446-18-6		1	0
Selenium sulfide	7446-34-6		27	0
Mercuric chloride	7487-94-7	601.45	50	0
Hydrogen cyanide	74-90-8	803.08	32	0
Chlorodifluoromethane 75-45-	6		774	0
Propylene oxide	75-56-9		246	0

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Cacodylic acid	75-60-5	922.06	11	0
Dalapon (sodium salt)	75-99-0		14	0
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	0
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	0
Glycidaldehyde 765-34	-4			0
Assure 76578-14	-8			0
Paclobutrazol 76738-62	-0		7	0
Glufosinate-ammonium 77182-82	-2			0
White phosphorus	7723-14-0	1,144.77	1,054	0
Lactofen 77501-63	-4			0
Aluminum sulfamate	7773-06-0		9	0
Dimethyl sulfate	77-78-1		4	0
Fluorine, soluble fluoride	7782-41-4	613.28		0
Chlorine 7782-50	-5	840.37	241	0
Selenious acid	7783-00-8		110	0
Thallium chloride	7791-12-0		1	0
Tetraethyl lead	78-00-2		99	0
Phosphine 7803-51	-2	559.74	16	0
Merphos oxide	78-48-8	797.88	2	0
Savey 78587-05	-0			0
Isobutyl alcohol	78-83-1		2,432	0
Acrylamide 79-06-	1		303	0
Acrylic acid	79-10-7		234	0
Harmony 79277-27	-3			0
2-Nitropropane 79-46-	9		43	0
Bisphenol A	80-05-7		482	0
Demeton 8065-48	-3			0
1,1,1,2-Tetrafluoroethane 811-97	-2		775	0
Imazaquin 81335-37	-7		2	0
Pursuit 81335-77	-5			0
Warfarin 81-81-	2		9	0
Triasulfuron 82097-50	-5			0
1,6-Hexamethylene diisocyanate	822-06-0		2,283	0
Isoxaben 82558-50	-7		4	0
Biphenethrin 82657-04	-3		12	0
Pentachloronitrobenzene 82-68-	8		12	0
Londax 83055-99	-6			0
Ametryn 834-12	-8		6	0
Rotenone 83-79-	4		6	0
Diethyl phthalate	84-66-2		56	0
Ethylphthalyl ethylglycolate (EPEG)	84-72-0			0
Diquat 85-00-	7		32	0
Phthalic anhydride	85-44-9			0

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Nustar 85509-19	-9			0
Hexabromobenzene 87-82-	1			0
Terbutryn 886-50	-0		3	0
Systhane 88671-89	-0		1	0
Dinoseb 88-85-	7		13	0
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	0
Chlorimuron-ethyl 90982-32	-4			0
beta-Chloronaphthalene 91-58-	7		24	0
1,1-Biphenyl 92-52-	4		98	0
N-Nitrosopyrrolidine 930-55	-2		1	0
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	0
2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	0
Fonofos 944-22	-9		3	0
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	0
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5			0
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	0
Methidathion 950-37	-8			0
o-Chlorotoluene 95-49-	8		94	0
2-Chlorophenol 95-57-	8	599.62	36	0
3,4-Dimethylphenol 95-65-	8		3	0
Diphenamid 957-51	-7		3	0
2,4-Diaminotoluene 95-80-	7		8	0
1,2,4,5-Tetrachlorobenzene 95-94-	3		4	0
2,4,5-Trichlorophenol 95-95-	4	604.83	21	0
Tetrachlorovinphos 961-11	-5		8	0
Methyl acrylate	96-33-3		102	0
Ethylene thiourea	96-45-7		65	0
Furfural 98-01-	1		61	0
Benzotrichloride 98-07-	7		3	0
1,3,5-Trinitrobenzene 99-35-	4	820.17	7	0
p-Nitrophenol 100-02	-7	567.79	55	
Nitric Oxide	10102-43-9		43	
Quinone 106-51	-4		11	
Thallium selenite	12039-52-0			
p-Chlorophenyl methyl sulfide	123-09-1			
Dimethylamine 124-40	-3		38	
Thallic oxide	1314-32-5		6	
Dibenzofuran 132-64	-9	689.19	17	
Asbestos 1332-21	-4	841.54	475	
Nickel carbonyl	13463-39-3			
n-Heptane 142-82	-5		2,116	
Triethylene glycol monobutyl ether	143-22-6		60	
Ethyleneimine 151-56	-4		5	

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
Benzo[g,h,i]perylene 191-24	-2		19	
Nitrapyrin 1929-82	-4		2	
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3			
p,p'-Dibromodiphenyl ether	2050-47-7		2	
Acenaphthylene 208-96	-8		20	
Phosolone 2310-17	-0			
Pentachlorocyclopentadiene 25329-35	-5			
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30	
Diazomethane 334-88	-3			
Hexabromodiphenyl ether	36483-60-0			
Tetrabromodiphenyl ether	40088-47-9			
Carbonyl sulfide	463-58-1		4	
Tribromodiphenyl ether	49690-94-0			
4-Aminopyridine 504-24	-5		16	
t-Butyl chloride	507-20-0		1	
Ethyl carbamate	51-79-6		12	
Propylene glycol monoethyl ether	52125-53-8		6	
2-Chloroacetophenone 532-27	-4		10	
1,3-Dichlorobenzene 541-73	-1	631.41	62	
Barium cyanide	542-62-1		6	
beta-Propiolactone 57-57-	8			
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7			
Dibromodichloromethane 594-18	-3			
d-Limonene 5989-27	-5		1,488	
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7			
Methyl isocyanate	624-83-9			
Ammonium acetate	631-61-8		368	
Nonabromodiphenyl ether	63936-56-1		3	
Diethyl sulfate	64-67-5		1	
Radium 226,228	7440-14-4	828.07		
Bromochloromethane 74-97-	5		55	
Propyleneimine 75-55-	8			
Bromotrichloromethane 75-62-	7		1	
Trichloroacetic acid	76-03-9		62	
Hydrogen chloride	7647-01-0		2,670	
Phosphoric acid	7664-38-2		2,437	
Ammonia 7664-41	-7	745.55	1,453	
Trichlorocyclopentadiene 77323-84	-3			
Arsine 7784-42	-1	602.42	11	
Methyl chlorocarbonate	79-22-1		4	
Creosote 8001-58	-9	1,124.32	32	
Coke oven emissions	8007-45-2	807.07	77	
Phenanthrene 85-01-	8	597.68	36	

TABLE A-7a. IRIS Chemicals of Interest Ranked by the Number of Air Force ERP Sites at Which They Were Detected at Concentrations Exceeding the RSLs (Bold Font) (*Cont.*)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*
Maximum Possible Number		1,800.00	151,413	N/A
ortho-Anisidine 90-04-	0			
p-Chlorophenyl methyl sulfoxide	934-73-6			
p-Chlorophenyl methyl sulfone	98-57-7			

* 0 = no RSL exceedances; blank = no RSL

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,641	10,000	1	1,570	25	10,000	1	21,570
Ethylbenzene	100-41-4	832.13	10,696	543	4,975	59	10,000	1	3,309	7	18,284
Nickel 7440-02	-0	1,005.40	7,850	0	6,011	37	7,339	3			13,350
Benzo [a] pyrene	50-32-8	1,312.45	41	729	7,847	5	38	128	4,442	3	12,328
Naphthalene 91-20-	3	896.67	1,635	818	5,361	43	1,529	27	4,985	2	11,874
Manganese 7439-96	-5	807.90	7,411	0	4,830	66	6,929	5			11,759
Copper	7440-50-8	804.86	6,993	39	4,812	69	6,538	6	238	42	11,588
Mercury, elemental	7439-97-6	1,504.69	1,588	160	8,996	2	1,485	29	975	23	11,456
Trichloroethylene 79-01-	6	1,154.73	568	631	6,904	10	531	49	3,845	4	11,280
Dichloromethane	75-09-2	888.96	4,136	302	5,315	44	3,867	9	1,840	13	11,022
Benzo(b)fluoranthene	205-99-2	1,266.55	25	549	7,572	6	23	143	3,346	6	10,941
Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	6	8,166	3	2,609	14	37	61	10,812
Tetrachloroethylene 127-18	-4	1,080.43	929	565	6,460	23	869	40	3,443	5	10,771
Cadmium 7440-43	-9	1,324.22	1,970	110	7,917	4	1,842	24	670	27	10,429
Dibenzo(a,h)anthracene 53-70-	3	1,165.88	23	457	6,971	9	22	144	2,785	10	9,777
Benzo(a)anthracene 56-55-	3	1,057.96	33	529	6,325	27	31	135	3,224	8	9,580
Ethylene glycol	107-21-1		10,234	0			9,568	2			9,568
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	337	5,495	42	1,226	32	2,054	12	8,774
1,1,1-Trichloroethane	71-55-6	833.81	3,552	7	4,985	57	3,321	11	43	60	8,349
Dieldrin	60-57-1	1,150.91	45	173	6,881	11	42	125	1,054	21	7,977
White phosphorus	7723-14-0	1,144.77	1,054	0	6,844	13	985	38			7,830
1,2-Dichloroethane	107-06-2	863.99	440	359	5,166	47	411	56	2,188	11	7,765
Carbon tetrachloride	56-23-5	1,023.32	292	215	6,118	34	273	65	1,310	18	7,701
Arochlor 1254	11097-69-1	1,182.63	70	92	7,071	8	65	107	561	30	7,697
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	15	7,135	7	107	86	91	54	7,333
Aldrin	309-00-2	1,117.22	44	97	6,680	17	41	126	591	29	7,312

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Hexachlorobutadiene	87-68-3	1,129.63		85	6,754	15			518	31	7,272
Benzo(k)fluoranthene	207-08-9	981.26	24	216	5,867	40	22	144	1,316	17	7,205
Methanol 67-56-	1		7,659	0			7,161	4			7,161
Chromium (VI)	18540-29-9	1,149.98	147	19	6,875	12	137	81	116	50	7,129
Indeno[1,2,3-cd]pyrene 193-39	-5	703.30	23	474	4,205	88	22	144	2,888	9	7,115
Dibutyl phthalate	84-74-2	1,007.49	1,132	1	6,024	36	1,058	33	6	66	7,088
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	1,132.49	37	45	6,771	14	35	131	274	41	7,080
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	38	6,665	18	35	131	232	43	6,931
Heptachlor	76-44-8	1,072.67	54	72	6,413	24	50	119	439	33	6,903
Heptachlor epoxide	1024-57-3	1,027.12	45	104	6,141	33	42	125	634	28	6,817
gamma-Hexachlorocyclohexane	58-89-9	1,081.63	82	39	6,467	22	77	103	238	42	6,781
Creosote 8001-58	-9	1,124.32	32		6,722	16	30	136			6,752
beta-Hexachlorocyclohexane	319-85-7	1,060.22	29	58	6,339	25	27	139	353	36	6,719
Benzidine	92-87-5	1,114.24	23	4	6,662	19	22	144	24	63	6,708
1,2-Dibromo-3-chloropropane	96-12-8	1,035.55	30	80	6,191	31	28	138	488	32	6,707
Beryllium and compounds	7440-41-7	1,046.12	379	11	6,255	29	354	57	67	56	6,676
Cyanide, free	57-12-5	1,099.48	48	0	6,574	20	45	123			6,618
Pentachlorophenol	87-86-5	1,028.01	110	60	6,146	32	103	87	366	35	6,615
Toxaphene	8001-35-2	1,086.65	24	9	6,497	21	22	144	55	58	6,574
Disulfoton 298-04	-4	1,058.85	25	0	6,331	26	23	143			6,354
Endrin	72-20-8	1,048.57	58	1	6,269	28	54	116	6	66	6,329
1,4-Dichlorobenzene	106-46-7	737.32	246	276	4,408	80	230	70	1,682	15	6,320
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30		6,208	30	28	138			6,236
Arochlor 1016	12674-11-2	1,014.33	41	10	6,064	35	38	128	61	57	6,164
Silver 7440-22	-4	612.19	2,491	17	3,660	105	2,329	16	104	52	6,093
Endosulfan 115-29	-7	1,004.65	3	0	6,007	38	3	163			6,009
Methoxychlor 72-43-	5	994.47	63	0	5,946	39	59	111			6,005
n-Butanol 71-36-	3		6,253	0			5,846	7			5,846
Ammonia 7664-41	-7	745.55	1,453		4,457	79	1,358	31			5,816

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
1,1,2-Trichloroethane	79-00-5	724.96	51	226	4,334	83	48	120	1,377	16	5,759
Chlorobenzene	108-90-7	819.69	213	85	4,901	62	199	76	518	31	5,618
Antimony 7440-36	-0	605.37	2,105	0	3,619	107	1,968	22			5,587
Chrysene	218-01-9	802.10	34	117	4,796	71	32	134	713	26	5,540
Cacodylic acid	75-60-5	922.06	11	0	5,513	41	10	156			5,523
1,1,2,2-Tetrachloroethane	79-34-5	782.15	43	127	4,676	74	40	127	774	25	5,490
Asbestos 1332-21	-4	841.54	475		5,031	51	444	54			5,475
1,1-Dichloroethane	75-34-3	736.23	45	168	4,402	81	42	125	1,024	22	5,468
Bis(chloroethyl)ether	111-44-4	859.88	20	39	5,141	50	19	147	238	42	5,397
2,4-Dinitrotoluene	121-14-2	837.88	43	53	5,010	55	40	127	323	39	5,373
2,4,6-Trinitrotoluene	118-96-7	883.59	51	6	5,283	45	48	120	37	61	5,367
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	80	4,840	65	29	137	488	32	5,357
2,4,6-Trichlorophenol	88-06-2	863.71	35	22	5,164	48	33	133	134	48	5,331
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	34	5,024	53	95	92	207	44	5,326
Hexachlorobenzene	118-74-1	838.34	88	33	5,012	54	82	100	201	45	5,296
Hydrazine/hydrazine sulfate	302-01-2	864.41	69	5	5,168	46	65	107	30	62	5,263
Chlorine 7782-50	-5	840.37	241	0	5,024	52	225	72			5,250
N-Nitroso-di-N-propylamine	621-64-7	811.05	23	60	4,849	64	22	144	366	35	5,236
2,4-Dinitrophenol	51-28-5	860.45	34	9	5,144	49	32	124	55	58	5,231
Selenium and compounds	7782-49-2	778.98	296	29	4,657	75	277	64	177	46	5,111
Butyl benzyl phthalate	85-68-7	659.38	1,070	17	3,942	93	1,000	36	104	52	5,046
Uranium, natural	7440-61-1	833.41	59	0	4,983	58	55	115			5,038
Ethion 563-12	-2	834.03	6	0	4,986	56	6	160			4,992
Chlorpyrifos 2921-88	-2	804.93	166	0	4,813	68	155	78			4,968
Radium 226,228	7440-14-4	828.07			4,951	60					4,951
1,3,5-Trinitrobenzene 99-35-	4	820.17	7	0	4,904	61	7	159			4,910
Coke oven emissions	8007-45-2	807.07	77		4,825	67	72	105			4,897
Fluoranthene 206-44	-0	812.40	32	0	4,857	63	30	136			4,887
Hydrogen cyanide	74-90-8	803.08	32	0	4,801	70	30	136			4,831

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Dibromochloromethane	124-48-1	580.59	48	208	3,471	120	45	123	1,268	19	4,784
Merphos oxide	78-48-8	797.88	2	0	4,770	72	2	164			4,772
Styrene 100-42	-5	532.70	1,646	1	3,185	131	1,539	26	6	66	4,730
Parathion 56-38-	2	784.14	8	0	4,688	73	7	159			4,696
trans-1,2-Dichloroethylene	156-60-5	704.04	136	57	4,209	87	127	83	347	37	4,684
technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	0	4,633	76	4	162			4,637
Trifluralin 1582-09	-8	770.12	27	0	4,604	77	25	141			4,630
1,2-Dichlorobenzene	95-50-1	704.91	249	22	4,215	86	233	69	134	48	4,581
Pentachlorobenzene 608-93	-5	753.58	4	0	4,505	78	4	162			4,509
Acenaphthene	83-32-9	731.25	37	2	4,372	82	35	131	12	65	4,419
cis-1,2-Dichloroethylene	156-59-2	533.15	27	197	3,188	130	25	141	1,200	20	4,413
1,4-Dioxane 123-91	-1	616.29	623	23	3,685	102	582	46	140	47	4,407
4-Methylphenol	106-44-5	707.83	39	16	4,232	85	36	130	98	53	4,366
1,2,4-Trichlorobenzene	120-82-1	647.30	56	63	3,870	97	52	117	384	34	4,306
1,2-Diphenylhydrazine 122-66	-7	713.90	1	0	4,268	84	1	165			4,269
Carbon disulfide	75-15-0	702.55	40	4	4,200	89	37	129	24	63	4,262
Ethyl chloride	75-00-3	693.90	64	1	4,149	90	60	110	6	66	4,215
2,4-Dimethylphenol	105-67-9	685.76	26	8	4,100	92	24	142	49	59	4,173
Dibenzofuran 132-64	-9	689.19	17		4,121	91	16	150			4,136
Ethyl acetate	141-78-6		4,385	0			4,100	8			4,100
Hexachloroethane	67-72-1	653.10	39	23	3,905	95	36	130	140	47	4,081
2-Methylphenol	95-48-7	658.66	103	3	3,938	94	96	91	18	64	4,053
N-Nitrosodimethylamine	62-75-9	650.71	16	22	3,890	96	15	151	134	48	4,039
Bromoform	75-25-2	643.53	68	21	3,848	98	64	108	128	49	4,039
Tricresol 1319-77	-3	602.74	272	0	3,604	109	254	66			3,858
N-Nitrosodiphenylamine	86-30-6	624.79	29	14	3,735	100	27	139	85	55	3,848
1,3-Dichlorobenzene 541-73	-1	631.41	62		3,775	99	58	112			3,833
Propylene glycol	57-55-6		4,063	0			3,799	10			3,799
N,N-Dimethylformamide 68-12-	2	578.23	363	0	3,457	123	339	60			3,796

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
2,4-Dichlorophenol 120-83	-2	616.45		3	3,686	101			18	64	3,704
Fluorine, soluble fluoride	7782-41-4	613.28		0	3,667	103					3,667
Nitrite 14797-65	-0	612.64		0	3,663	104					3,663
Nitrate	14797-55-8	610.66	2	0	3,651	106	2	164			3,653
Dichlorvos	62-73-7	601.64	49	0	3,597	114	46	122			3,643
Mercuric chloride	7487-94-7	601.45	50	0	3,596	115	47	121			3,643
2,4,5-Trichlorophenol	95-95-4	604.83	21	0	3,616	108	20	146			3,636
2-Chlorophenol	95-57-8	599.62	36	0	3,585	117	34	132			3,619
Naled	300-76-5	602.32	18	0	3,601	113	17	149			3,618
Dimethoate	60-51-5	602.61	11	0	3,603	111	10	156			3,613
Arsine	7784-42-1	602.42	11		3,602	112	10	156			3,612
Phenanthrene	85-01-8	597.68	36		3,573	118	34	132			3,607
Chlordane (technical)	12789-03-6	602.62	1	0	3,603	110	1	165			3,604
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	0	3,494	119	102	89			3,596
Formaldehyde 50-00-	0	599.64		0	3,585	116					3,585
Diuron	330-54-1	579.16	72	0	3,463	121	67	106			3,530
Pyrene	129-00-0	577.95	30	2	3,455	124	28	138	12	65	3,496
Butylate	2008-41-5	578.43	5	0	3,458	122	5	161			3,463
Acrylonitrile 107-13	-1	528.28	265	8	3,158	133	248	68	49	59	3,455
p-Nitrophenol	100-02-7	567.79	55		3,395	125	51	118			3,446
2,6-Dinitrotoluene	606-20-2	555.20	20	7	3,319	127	19	147	43	60	3,381
Phosphine	7803-51-2	559.74	16	0	3,347	126	15	151			3,362
di(2-ethylhexyl)Adipate	103-23-1	540.20	50	0	3,230	129	47	121			3,276
Methyl parathion	298-00-0	545.83	7	0	3,263	128	7	159			3,270
Carbaryl 63-25-	2	530.98	93	0	3,175	132	87	97			3,262
Molybdenum 7439-98	-7		3,186	19			2,979	12	116	50	3,094
Cyclohexanone 108-94	-1		2,829	0			2,645	13			2,645
Hydrogen chloride	7647-01-0		2,670				2,496	15			2,496
Phosphoric acid	7664-38-2		2,437				2,278	17			2,278

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Isobutyl alcohol	78-83-1		2,432	0			2,274	18			2,274
Hydroquinone 123-31	-9		2,337	0			2,185	19			2,185
1,6-Hexamethylene diisocyanate	822-06-0		2,283	0			2,134	20			2,134
n-Heptane 142-82	-5		2,116				1,978	21			1,978
Propylene glycol monomethyl ether	107-98-2		2,048	0			1,915	23			1,915
Bromodichloromethane 75-27-	4		50	281			47	121	1,712	14	1,759
Cumene 98-82-	8		1,632	6			1,526	28	37	61	1,562
d-Limonene 5989-27	-5		1,488				1,391	30			1,391
Methyl tert-butyl ether	1634-04-4		742	110			694	44	670	27	1,364
Sodium azide	26628-22-8		1,100	0			1,028	34			1,028
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	0			1,016	35			1,016
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	0			993	37			993
Dichlorodifluoromethane 75-71-	8		953	5			891	39	30	62	921
Vinyl acetate	108-05-4		953	0			891	39			891
1,2-Dichloropropane 78-87-	5		51	132			48	120	804	24	852
Antimony trioxide	1309-64-4		906	0			847	41			847
1,1,1,2-Tetrafluoroethane 811-97	-2		775	0			725	42			725
Chlorodifluoromethane 75-45-	6		774	0			724	43			724
2-Ethoxyethanol 110-80	-5		688	0			643	45			643
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	0			561	47			561
Vanadium pentoxide	1314-62-1		587	0			549	48			549
Epichlorohydrin 106-89	-8		559	0			523	50			523
2-Methoxyethanol 109-86	-4		559	0			523	51			523
Trichlorofluoromethane 75-69-	4		535	3			500	52	18	64	518
1,2,3-Trichloropropane 96-18-	4		20	80			19	147	488	32	506
Bisphenol A	80-05-7		482	0			451	53			451
Triethylamine 121-44	-8		459	0			429	55			429
1,1,1,2-Tetrachloroethane 630-20	-6		19	55			18	148	335	38	353
Ethylene diamine	107-15-3		377	0			352	58			352

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Ammonium acetate	631-61-8		368				344	59			344
Bromomethane 74-83-	9		63	46			59	111	280	40	339
Acetaldehyde 75-07-	0		323	1			302	61	6	66	308
Acrylamide 79-06-	1		303	0			283	62			283
1,2-Epoxybutane 106-88	-7		300	0			280	63			280
Nitrobenzene 98-95-	3		37	39			35	131	238	42	272
Formic acid	64-18-6		271	1			253	67	6	66	259
Isophorone 78-59-	1		237	4			222	74	24	63	246
Propylene oxide	75-56-9		246	0			230	71			230
Phenylmercuric acetate	62-38-4		240	0			224	73			224
Acrylic acid	79-10-7		234	0			219	75			219
p-Chloroaniline 106-47	-8		8	34			7	159	207	44	215
o-Dinitrobenzene 528-29	-0			34					207	44	207
Chlorothalonil 1897-45	-6		205	0			192	77			192
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	18			51	118	110	51	161
Potassium cyanide	151-50-8		161	0			151	79			151
Cyclohexylamine 108-91	-8		154	0			144	80			144
Aniline 62-53-3			140	0			131	82			131
Diphenylamine 122-39	-4		123	0			115	84			115
Chromium III, insoluble salts	16065-83-1		118	0			110	85			110
Selenious acid	7783-00-8		110	0			103	88			103
Baygon 114-26	-1		106	0			99	90			99
Tributyltin oxide	56-35-9		106	0			99	90			99
Permethrin 52645-53	-1		103	0			96	91			96
Methyl acrylate	96-33-3		102	0			95	92			95
Benzaldehyde 100-52	-7		101	0			94	93			94
Tetraethyl lead	78-00-2		99	0			93	94			93
1,1-Biphenyl 92-52-	4		98	0			92	95			92
o-Chlorotoluene 95-49-	8		94	0			88	96			88

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Thiram 137-26	-8		93	0			87	97			87
Sodium cyanide	143-33-9		90	0			84	98			84
m-Phenylenediamine 108-45	-2		89	0			83	99			83
Resmethrin 10453-86	-8		86	0			80	101			80
Pentafluoroethane 354-33	-6		86	0			80	101			80
Pyridine 110-86	-1		83	0			78	102			78
Malathion 121-75	-5		80	0			75	104			75
Amdro 67485-29	-4		77	0			72	105			72
N,N-Dimethylaniline 121-69	-7		68	0			64	108			64
Folpet 133-07	-3		68	0			64	108			64
Ethylene thiourea	96-45-7		65	0			61	109			61
Trichloroacetic acid	76-03-9		62				58	112			58
Furfural 98-01-	1		61	0			57	113			57
Triethylene glycol monobutyl ether	143-22-6		60				56	114			56
Dicamba 1918-00	-9		58	0			54	116			54
Decabromodiphenyl ether (DBDPE)	1163-19-5		56	0			52	117			52
Diethyl phthalate	84-66-2		56	0			52	117			52
Bromochloromethane 74-97-	5		55				51	118			51
Fluorene 86-73-	7		19	5			18	148	30	62	48
Baythroid 68359-37	-5		50	0			47	121			47
Simazine 122-34	-9		46	0			43	124			43
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0		46	0			43	124			43
Atrazine 1912-24	-9		37	1			35	131	6	66	41
3-Methylphenol 108-39	-4		43	0			40	127			40
2-Nitropropane 79-46-	9		43	0			40	127			40
Nitric Oxide	10102-43-9		43				40	127			40
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	5			7	159	30	62	37
Anthracene 120-12	-7		38	0			36	130			36
Dimethylamine 124-40	-3		38				36	130			36

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Glyphosate 1071-83	-6		33	0			31	135			31
Pendimethalin 40487-42	-1		32	0			30	136			30
Diquat 85-00-	7		32	0			30	136			30
Acephate 30560-19	-1		30	0			28	138			28
Silver cyanide	506-64-9		29	0			27	139			27
Hexazinone 51235-04	-2		29	0			27	139			27
Prometon 1610-18	-0		28	0			26	140			26
Thallium nitrate	10102-45-1		27	0			25	141			25
Selenium sulfide	7446-34-6		27	0			25	141			25
Cypermethrin 52315-07	-8		26	0			24	142			24
Hexachlorophene 70-30-	4		24	0			22	144			22
beta-Chloronaphthalene 91-58-	7		24	0			22	144			22
Azobenzene 103-33	-3		17	1			16	150	6	66	22
Caprolactam 105-60	-2		23	0			22	144			22
Methomyl 16752-77	-5		22	0			21	145			21
Maleic anhydride	108-31-6		21	0			20	146			20
Bis(2-chloroisopropyl) ether	108-60-1		14	1			13	153	6	66	19
Bis(2-chloroethoxy)methane 111-91	-1		14	1			13	153	6	66	19
Acetophenone 98-86-	2		14	1			13	153	6	66	19
Dacthal 1861-32	-1		20	0			19	147			19
Copper cyanide	544-92-3		20	0			19	147			19
Acenaphthylene 208-96	-8		20				19	147			19
Zinc phosphide	1314-84-7		19	0			18	148			18
Alachlor 15972-60	-8		19	0			18	148			18
Aluminum phosphide	20859-73-8		19	0			18	148			18
Benzo[g,h,i]perylene 191-24	-2		19				18	148			18
Propargyl alcohol	107-19-7		17	0			16	150			16
Tebuthiuron 34014-18	-1		17	0			16	150			16
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	0			16	150			16

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	0			16	150			16
Benefin 1861-40	-1		16	0			15	151			15
Metribuzin 21087-64	-9		16	0			15	151			15
4-Aminopyridine 504-24	-5		16				15	151			15
Methacrylonitrile 126-98	-7		2	2			2	164	12	65	14
Bayleton 43121-43	-3		15	0			14	152			14
N-Nitrosodiethylamine 55-18-	5		1	2			1	165	12	65	13
1-Chlorobutane 109-69	-3		14	0			13	153			13
3,3-Dimethylbenzidine 119-93	-7		14	0			13	153			13
Propachlor 1918-16	-7		14	0			13	153			13
Oxadiazon 19666-30	-9		14	0			13	153			13
Pentabromodiphenyl ether	32534-81-9		14	0			13	153			13
Iprodione 36734-19	-7		14	0			13	153			13
Potassium silver cyanide	506-61-6		14	0			13	153			13
Pydrin 51630-58	-1		14	0			13	153			13
Dalapon (sodium salt)	75-99-0		14	0			13	153			13
Oryzalin 19044-88	-3		13	0			12	154			12
Dinoseb 88-85-	7		13	0			12	154			12
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	0			12	154			12
Chlorobenzilate 510-15	-6		12	0			11	155			11
2,6-Dimethylphenol 576-26	-1		12	0			11	155			11
Biphenthrin 82657-04	-3		12	0			11	155			11
Pentachloronitrobenzene 82-68-	8		12	0			11	155			11
Ethyl carbamate	51-79-6		12				11	155			11
Quinone 106-51	-4		11				10	156			10
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	0			9	157			9
Captan 133-06	-2		10	0			9	157			9
Picloram 1918-02	-1		10	0			9	157			9
Metalaxyl 57837-19	-1		10	0			9	157			9

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
2-Chloroacetophenone 532-27	-4		10				9	157			9
Metolachlor 51218-45	-2		9	0			8	158			8
Zinc cyanide	557-21-1		9	0			8	158			8
Aluminum sulfamate	7773-06-0		9	0			8	158			8
Warfarin 81-81-	2		9	0			8	158			8
N-Nitroso-di-n-butylamine 924-16	-3		2	1			2	164	6	66	8
Chlorpropham 101-21	-3		8	0			7	159			7
Endothall 145-73	-3		8	0			7	159			7
Paraquat 1910-42	-5		8	0			7	159			7
Pronamide 23950-58	-5		8	0			7	159			7
Fluridone 59756-60	-4		8	0			7	159			7
2,4-Diaminotoluene 95-80-	7		8	0			7	159			7
Tetrachlorovinphos 961-11	-5		8	0			7	159			7
N-Nitroso-N-methylethylamine 10595-95	-6		1	1			1	165	6	66	7
Benzyl chloride	100-44-7		7	0			7	159			7
Sodium diethyldithiocarbamate	148-18-5		7	0			7	159			7
Vernam 1929-77	-7		7	0			7	159			7
Strychnine 57-24-	9		7	0			7	159			7
Paclobutrazol 76738-62	-0		7	0			7	159			7
Maneb 12427-38	-2		6	0			6	160			6
Chloramben 133-90	-4		6	0			6	160			6
Merphos 150-50	-5		6	0			6	160			6
Benomyl 17804-35	-2		6	0			6	160			6
Fenamiphos 22224-92	-6		6	0			6	160			6
Cyanogen 460-19	-5		6	0			6	160			6
2,3,4,6-Tetrachlorophenol 58-90-	2		6	0			6	160			6
Tralomethrin 66841-25	-6		6	0			6	160			6
Ally 74223-64	-6		6	0			6	160			6
Ametryn 834-12	-8		6	0			6	160			6

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Rotenone 83-79-	4		6	0			6	160			6
Thallic oxide	1314-32-5		6				6	160			6
Propylene glycol monoethyl ether	52125-53-8		6				6	160			6
Barium cyanide	542-62-1		6				6	160			6
Molinate 2212-67	-1		5	0			5	161			5
Oxamyl 23135-22	-0		5	0			5	161			5
Carboxin 5234-68	-4		5	0			5	161			5
Nitroguanidine 556-88	-7		5	0			5	161			5
Phosmet 732-11	-6		5	0			5	161			5
Ethyleneimine 151-56	-4		5				5	161			5
Allyl chloride	107-05-1		4	0			4	162			4
N-Nitrosodiethanolamine 1116-54	-7		4	0			4	162			4
Adiponitrile 111-69	-3		4	0			4	162			4
Carbofuran 1563-66	-2		4	0			4	162			4
Cyanazine 21725-46	-2		4	0			4	162			4
Tetraethyldithiopyrophosphate 3689-24	-5		4	0			4	162			4
Oxyfluorfen 42874-03	-3		4	0			4	162			4
Vinclozolin 50471-44	-8		4	0			4	162			4
Thallium acetate	563-68-8		4	0			4	162			4
Propiconazole 60207-90	-1		4	0			4	162			4
Avermectin B1	65195-55-3		4	0			4	162			4
Prometryn 7287-19	-6		4	0			4	162			4
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	0			4	162			4
Dimethyl sulfate	77-78-1		4	0			4	162			4
Isoxaben 82558-50	-7		4	0			4	162			4
1,2,4,5-Tetrachlorobenzene 95-94-	3		4	0			4	162			4
Carbonyl sulfide	463-58-1		4				4	162			4
Methyl chlorocarbonate	79-22-1		4				4	162			4
Aldicarb 116-06	-3		3	0			3	163			3

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Zineb 12122-67	-7		3	0			3	163			3
Propazine 139-40	-2		3	0			3	163			3
Aldicarb sulfone	1646-88-4		3	0			3	163			3
Bromoxynil octanoate	1689-99-2		3	0			3	163			3
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	0			3	163			3
Dodine 2439-10	-3		3	0			3	163			3
Norflurazon 27314-13	-2		3	0			3	163			3
Amitraz 33089-61	-1		3	0			3	163			3
Terbacil 5902-51	-2		3	0			3	163			3
Sethoxydim 74051-80	-2		3	0			3	163			3
Terbutryn 886-50	-0		3	0			3	163			3
Fonofos 944-22	-9		3	0			3	163			3
3,4-Dimethylphenol 95-65-	8		3	0			3	163			3
Diphenamid 957-51	-7		3	0			3	163			3
Benzotrithloride 98-07-	7		3	0			3	163			3
Nonabromodiphenyl ether	63936-56-1		3				3	163			3
1,4-Dibromobenzene 106-37	-6		2	0			2	164			2
Dimethyl terephthalate (DMT)	120-61-6		2	0			2	164			2
Aramite 140-57	-8		2	0			2	164			2
Bidrin 141-66	-2		2	0			2	164			2
Napropamide 15299-99	-7		2	0			2	164			2
Octabromodiphenyl ether	32536-52-0		2	0			2	164			2
Calcium cyanide	592-01-8		2	0			2	164			2
1,2,4-Tribromobenzene 615-54	-3		2	0			2	164			2
Acifluorfen, sodium	62476-59-9		2	0			2	164			2
Sodium fluoroacetate	62-74-8		2	0			2	164			2
Chlorsulfuron 64902-72	-3		2	0			2	164			2
Flutolanil 66332-96	-5		2	0			2	164			2
Fluvalinate 69409-94	-5		2	0			2	164			2

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Imazaquin 81335-37	-7		2	0			2	164			2
Nitrapyrin 1929-82	-4		2				2	164			2
p,p'-Dibromodiphenyl ether	2050-47-7		2				2	164			2
Allyl alcohol	107-18-6		1	0			1	165			1
Furan 110-00	-9		1	0			1	165			1
Maleic hydrazide	123-33-1		1	0			1	165			1
Fluometuron 2164-17	-2		1	0			1	165			1
Triallate 2303-17	-5		1	0			1	165			1
Thiobencarb 28249-77	-6		1	0			1	165			1
Linuron 330-55	-2		1	0			1	165			1
Isopropalin 33820-53	-0		1	0			1	165			1
Thallium carbonate	6533-73-9		1	0			1	165			1
Thallium (I) sulfate	7446-18-6		1	0			1	165			1
Thallium chloride	7791-12-0		1	0			1	165			1
Systhane 88671-89	-0		1	0			1	165			1
N-Nitrosopyrrolidine 930-55	-2		1	0			1	165			1
t-Butyl chloride	507-20-0		1				1	165			1
Diethyl sulfate	64-67-5		1				1	165			1
Bromotrichloromethane 75-62-	7		1				1	165			1
Express 101200-4	8-0			0							
Methamidophos 10265-92	-6			0							
Monchloramine 10599-90	-3			0							
Chloromethyl methyl ether	107-30-2			0							
Nickel subsulfide	12035-72-2			0							
Propham 122-42	-9			0							
4,6-Dinitro-o-cyclohexyl phenol	131-89-5			0							
Quinalphos 13593-03	-8			0							
Phenmedipham 13684-63	-4			0							
Diisopropyl methylphosphonate	1445-75-6			0							

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Alar 1596-84	-5			0							
Ethephon 16672-87	-0			0							
Bromoxynil 1689-84	-5			0							
Isopropyl methyl phosphonic acid	1832-54-8			0							
Propargite 2312-35	-8			0							
Thiophanate-methyl 23564-05	-8			0							
Mirex 2385-85	-5			0							
Captafol 2425-06	-1			0							
Mepiquat chloride	24307-26-4			0							
Pirimiphos-methyl 29232-93	-7			0							
Asulam 3337-71	-1			0							
Acetochlor 34256-82	-1			0							
Diflubenzuron 35367-38	-5			0							
Imazalil 35554-44	-0			0							
Fosetyl-al 39148-24	-8			0							
Danitol 39515-41	-8			0							
Difenzoquat 43222-48	-6			0							
Chlorine cyanide	506-77-4			0							
Bis(chloromethyl) ether	542-88-1			0							
Carbosulfan 55285-14	-8			0							
Dimethipin 55290-64	-7			0							
Tridiphane 58138-08	-2			0							
Vinyl bromide	593-60-2			0							
1,1,2-Trichloropropane 598-77	-6			0							
Furmecyclox 60568-05	-0			0							
Selenourea 630-10	-4			0							
Cyromazine 66215-27	-8			0							
Prochloraz 67747-09	-5			0							
Cyhalothrin/karate 68085-85	-8			0							

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Haloxypop-methyl 69806-40	-2			0							
Propanil 709-98	-8			0							
Fomasafen 72178-02	-0			0							
Apollo 74115-24	-5			0							
Glycidaldehyde 765-34	-4			0							
Assure 76578-14	-8			0							
Glufosinate-ammonium 77182-82	-2			0							
Lactofen 77501-63	-4			0							
Savey 78587-05	-0			0							
Harmony 79277-27	-3			0							
Demeton 8065-48	-3			0							
Pursuit 81335-77	-5			0							
Triasulfuron 82097-50	-5			0							
Londax 83055-99	-6			0							
Ethylphthalyl ethylglycolate (EPEG)	84-72-0			0							
Phthalic anhydride	85-44-9			0							
Nustar 85509-19	-9			0							
Hexabromobenzene 87-82-	1			0							
Chlorimuron-ethyl 90982-32	-4			0							
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5			0							
Methidathion 950-37	-8			0							
Thallium selenite	12039-52-0										
p-Chlorophenyl methyl sulfide	123-09-1										
Nickel carbonyl	13463-39-3										
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3										
Phosolone 2310-17	-0										
Pentachlorocyclopentadiene 25329-35	-5										
Diazomethane 334-88	-3										
Hexabromodiphenyl ether	36483-60-0										

TABLE A-7b. IRIS Chemicals of Interest Ranked by the Sum of Their ATSDR, HMIRS, and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR		HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank	
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000
Tetrabromodiphenyl ether	40088-47-9										
Tribromodiphenyl ether	49690-94-0										
beta-Propiolactone 57-57-	8										
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7										
Dibromodichloromethane 594-18	-3										
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7										
Methyl isocyanate	624-83-9										
Propyleneimine 75-55-	8										
Trichlorocyclopentadiene 77323-84	-3										
ortho-Anisidine 90-04-	0										
p-Chlorophenyl methyl sulfoxide	934-73-6										
p-Chlorophenyl methyl sulfone	98-57-7										

* 0 = no RSL exceedances; blank = no RSL

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TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Ethylbenzene	100-41-4	832.13	10,696	543	4,975	59	10,000	1	3,309	7	18,284	13,309
Arsenic, inorganic	7440-38-2	1,672.58	1,679	1,641	10,000	1	1,570	25	10,000	1	21,570	11,570
Ethylene glycol	107-21-1		10,234	0			9,568	2			9,568	9,568
Nickel	7440-02-0	1,005.40	7,850	0	6,011	37	7,339	3			13,350	7,339
Methanol 67-56-	1		7,659	0			7,161	4			7,161	7,161
Manganese	7439-96-5	807.90	7,411	0	4,830	66	6,929	5			11,759	6,929
Copper	7440-50-8	804.86	6,993	39	4,812	69	6,538	6	238	42	11,588	6,776
Naphthalene	91-20-3	896.67	1,635	818	5,361	43	1,529	27	4,985	2	11,874	6,513
n-Butanol 71-36-	3		6,253	0			5,846	7			5,846	5,846
Dichloromethane	75-09-2	888.96	4,136	302	5,315	44	3,867	9	1,840	13	11,022	5,707
Benzo [a] pyrene	50-32-8	1,312.45	41	729	7,847	5	38	128	4,442	3	12,328	4,481
Trichloroethylene	79-01-6	1,154.73	568	631	6,904	10	531	49	3,845	4	11,280	4,376
Tetrachloroethylene	127-18-4	1,080.43	929	565	6,460	23	869	40	3,443	5	10,771	4,312
Ethyl acetate	141-78-6		4,385	0			4,100	8			4,100	4,100
Propylene glycol	57-55-6		4,063	0			3,799	10			3,799	3,799
Benzo(b)fluoranthene	205-99-2	1,266.55	25	549	7,572	6	23	143	3,346	6	10,941	3,369
1,1,1-Trichloroethane	71-55-6	833.81	3,552	7	4,985	57	3,321	11	43	60	8,349	3,364
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	919.02	1,311	337	5,495	42	1,226	32	2,054	12	8,774	3,279
Benzo(a)anthracene	56-55-3	1,057.96	33	529	6,325	27	31	135	3,224	8	9,580	3,254
Molybdenum	7439-98-7		3,186	19			2,979	12	116	50	3,094	3,094
Indeno[1,2,3-cd]pyrene	193-39-5	703.30	23	474	4,205	88	22	144	2,888	9	7,115	2,910
Dibenzo(a,h)anthracene	53-70-3	1,165.88	23	457	6,971	9	22	144	2,785	10	9,777	2,806
Polychlorinated biphenyls	1336-36-3	1,365.78	2,791	6	8,166	3	2,609	14	37	61	10,812	2,646
Cyclohexanone 108-94	-1		2,829	0			2,645	13			2,645	2,645
1,2-Dichloroethane	107-06-2	863.99	440	359	5,166	47	411	56	2,188	11	7,765	2,599
Cadmium	7440-43-9	1,324.22	1,970	110	7,917	4	1,842	24	670	27	10,429	2,512

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		30,000	20,000
Hydrogen chloride	7647-01-0		2,670				2,496	15		2,496
Mercury, elemental	7439-97-6	1,504.69	1,588	160	8,996	2	1,485	29	975	11,456
Silver	7440-22-4	612.19	2,491	17	3,660	105	2,329	16	104	6,093
Phosphoric acid	7664-38-2		2,437				2,278	17		2,278
Isobutyl alcohol	78-83-1		2,432	0			2,274	18		2,274
Hydroquinone 123-31	-9		2,337	0			2,185	19		2,185
1,6-Hexamethylene diisocyanate	822-06-0		2,283	0			2,134	20		2,134
n-Heptane 142-82	-5		2,116				1,978	21		1,978
Antimony	7440-36-0	605.37	2,105	0	3,619	107	1,968	22		5,587
Propylene glycol monomethyl ether	107-98-2		2,048	0			1,915	23		1,915
1,4-Dichlorobenzene	106-46-7	737.32	246	276	4,408	80	230	70	1,682	6,320
Bromodichloromethane 75-27-	4		50	281			47	121	1,712	1,759
Carbon tetrachloride	56-23-5	1,023.32	292	215	6,118	34	273	65	1,310	7,701
Cumene	98-82-8		1,632	6			1,526	28	37	1,562
Styrene	100-42-5	532.70	1,646	1	3,185	131	1,539	26	6	4,730
1,1,2-Trichloroethane	79-00-5	724.96	51	226	4,334	83	48	120	1,377	5,759
d-Limonene 5989-27	-5		1,488				1,391	30		1,391
Methyl tert-butyl ether	1634-04-4		742	110			694	44	670	1,364
Ammonia	7664-41-7	745.55	1,453		4,457	79	1,358	31		5,816
Benzo(k)fluoranthene	207-08-9	981.26	24	216	5,867	40	22	144	1,316	7,205
Dibromochloromethane	124-48-1	580.59	48	208	3,471	120	45	123	1,268	4,784
cis-1,2-Dichloroethylene	156-59-2	533.15	27	197	3,188	130	25	141	1,200	4,413
Butyl benzyl phthalate	85-68-7	659.38	1,070	17	3,942	93	1,000	36	104	5,046
Dieldrin	60-57-1	1,150.91	45	173	6,881	11	42	125	1,054	7,977
1,1-Dichloroethane	75-34-3	736.23	45	168	4,402	81	42	125	1,024	5,468
Dibutyl phthalate	84-74-2	1,007.49	1,132	1	6,024	36	1,058	33	6	7,088
Sodium azide	26628-22-8		1,100	0			1,028	34		1,028
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	76-13-1		1,087	0			1,016	35		1,016
Methylene Diphenyl Diisocyanate (monomeric MDI)	101-68-8		1,062	0			993	37		993

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
White phosphorus	7723-14-0	1,144.77	1,054	0	6,844	13	985	38			7,830	985
Dichlorodifluoromethane	75-71-8		953	5			891	39	30	62	921	921
Vinyl acetate	108-05-4		953	0			891	39			891	891
1,2-Dichloropropane 78-87-	5		51	132			48	120	804	24	852	852
Antimony trioxide	1309-64-4		906	0			847	41			847	847
1,1,2,2-Tetrachloroethane	79-34-5	782.15	43	127	4,676	74	40	127	774	25	5,490	814
Chrysene	218-01-9	802.10	34	117	4,796	71	32	134	713	26	5,540	745
1,1,1,2-Tetrafluoroethane 811-97	-2		775	0			725	42			725	725
Chlorodifluoromethane 75-45-	6		774	0			724	43			724	724
1,4-Dioxane	123-91-1	616.29	623	23	3,685	102	582	46	140	47	4,407	723
Chlorobenzene	108-90-7	819.69	213	85	4,901	62	199	76	518	31	5,618	717
Heptachlor epoxide	1024-57-3	1,027.12	45	104	6,141	33	42	125	634	28	6,817	676
2-Ethoxyethanol 110-80	-5		688	0			643	45			643	643
Aldrin	309-00-2	1,117.22	44	97	6,680	17	41	126	591	29	7,312	632
Arochlor 1254	11097-69-1	1,182.63	70	92	7,071	8	65	107	561	30	7,697	626
Methylene Diphenyl Diisocyanate (polymeric MDI)	9016-87-9		600	0			561	47			561	561
Vanadium pentoxide	1314-62-1		587	0			549	48			549	549
Epichlorohydrin 106-89	-8		559	0			523	50			523	523
2-Methoxyethanol 109-86	-4		559	0			523	51			523	523
Trichlorofluoromethane	75-69-4		535	3			500	52	18	64	518	518
Hexachlorobutadiene	87-68-3	1,129.63		85	6,754	15			518	31	7,272	518
alpha-Hexachlorocyclohexane (alpha-HCH)	319-84-6	809.56	31	80	4,840	65	29	137	488	32	5,357	516
1,2-Dibromo-3-chloropropane	96-12-8	1,035.55	30	80	6,191	31	28	138	488	32	6,707	516
1,2,3-Trichloropropane 96-18-	4		20	80			19	147	488	32	506	506
Heptachlor	76-44-8	1,072.67	54	72	6,413	24	50	119	439	33	6,903	489
trans-1,2-Dichloroethylene	156-60-5	704.04	136	57	4,209	87	127	83	347	37	4,684	474
Pentachlorophenol	87-86-5	1,028.01	110	60	6,146	32	103	87	366	35	6,615	468
Selenium and compounds	7782-49-2	778.98	296	29	4,657	75	277	64	177	46	5,111	453
Bisphenol A	80-05-7		482	0			451	53			451	451

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Asbestos	1332-21-4	841.54	475		5,031	51	444	54			5,475	444
1,2,4-Trichlorobenzene	120-82-1	647.30	56	63	3,870	97	52	117	384	34	4,306	436
Triethylamine 121-44	-8		459	0			429	55			429	429
Beryllium and compounds	7440-41-7	1,046.12	379	11	6,255	29	354	57	67	56	6,676	421
N-Nitroso-di-N-propylamine	621-64-7	811.05	23	60	4,849	64	22	144	366	35	5,236	387
beta-Hexachlorocyclohexane	319-85-7	1,060.22	29	58	6,339	25	27	139	353	36	6,719	381
1,2-Dichlorobenzene	95-50-1	704.91	249	22	4,215	86	233	69	134	48	4,581	367
2,4-Dinitrotoluene	121-14-2	837.88	43	53	5,010	55	40	127	323	39	5,373	363
1,1,1,2-Tetrachloroethane 630-20	-6		19	55			18	148	335	38	353	353
Ethylene diamine	107-15-3		377	0			352	58			352	352
Ammonium acetate	631-61-8		368				344	59			344	344
N,N-Dimethylformamide 68-12-	2	578.23	363	0	3,457	123	339	60			3,796	339
Bromomethane 74-83-	9		63	46			59	111	280	40	339	339
gamma-Hexachlorocyclohexane	58-89-9	1,081.63	82	39	6,467	22	77	103	238	42	6,781	314
p,p'-Dichlorodiphenyldichloro-ethylene	72-55-9	1,132.49	37	45	6,771	14	35	131	274	41	7,080	309
Acetaldehyde	75-07-0		323	1			302	61	6	66	308	308
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	840.28	102	34	5,024	53	95	92	207	44	5,326	303
Acrylonitrile	107-13-1	528.28	265	8	3,158	133	248	68	49	59	3,455	297
Hexachlorobenzene	118-74-1	838.34	88	33	5,012	54	82	100	201	45	5,296	283
Acrylamide 79-06-	1		303	0			283	62			283	283
1,2-Epoxybutane 106-88	-7		300	0			280	63			280	280
Nitrobenzene 98-95-	3		37	39			35	131	238	42	272	272
p,p'-Dichlorodiphenyl dichloroethane	72-54-8	1,114.83	37	38	6,665	18	35	131	232	43	6,931	266
Formic acid	64-18-6		271	1			253	67	6	66	259	259
Bis(chloroethyl)ether	111-44-4	859.88	20	39	5,141	50	19	147	238	42	5,397	256
Tricresol 1319-77	-3	602.74	272	0	3,604	109	254	66			3,858	254
Chromium (VI)	18540-29-9	1,149.98	147	19	6,875	12	137	81	116	50	7,129	253
Isophorone	78-59-1		237	4			222	74	24	63	246	246
Propylene oxide	75-56-9		246	0			230	71			230	230

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		30,000	20,000
Chlorine	7782-50-5	840.37	241	0	5,024	52	225	72	5,250	225
Phenylmercuric acetate	62-38-4		240	0			224	73	224	224
Acrylic acid	79-10-7		234	0			219	75	219	219
p-Chloroaniline 106-47	-8		8	34			7	159	207	215
o-Dinitrobenzene 528-29	-0			34					207	207
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	1,193.36	114	15	7,135	7	107	86	91	198
Chlorothalonil 1897-45	-6		205	0			192	77	192	192
Bromoform	75-25-2	643.53	68	21	3,848	98	64	108	128	192
Hexachloroethane	67-72-1	653.10	39	23	3,905	95	36	130	140	177
2,4,6-Trichlorophenol	88-06-2	863.71	35	22	5,164	48	33	133	134	167
2-(2-Methyl-4-chlorophenoxy)propionic acid	93-65-2		55	18			51	118	110	161
Chlorpyrifos	2921-88-2	804.93	166	0	4,813	68	155	78		155
Potassium cyanide	151-50-8		161	0			151	79	151	151
N-Nitrosodimethylamine	62-75-9	650.71	16	22	3,890	96	15	151	134	149
Cyclohexylamine 108-91	-8		154	0			144	80	144	144
4-Methylphenol	106-44-5	707.83	39	16	4,232	85	130	98	53	134
Aniline 62-53-3			140	0			131	82	131	131
Diphenylamine 122-39	-4		123	0			115	84	115	115
2-Methylphenol	95-48-7	658.66	103	3	3,938	94	96	91	18	115
N-Nitrosodiphenylamine	86-30-6	624.79	29	14	3,735	100	27	139	85	112
Chromium III, insoluble salts	16065-83-1		118	0			110	85	110	110
Selenious acid	7783-00-8		110	0			103	88	103	103
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	584.47	109	0	3,494	119	102	89	3,596	102
Arochlor 1016	12674-11-2	1,014.33	41	10	6,064	35	128	61	57	99
Baygon 114-26	-1		106	0			99	90	99	99
Tributyltin oxide	56-35-9		106	0			99	90	99	99
Permethrin 52645-53	-1		103	0			96	91	96	96
Methyl acrylate	96-33-3		102	0			95	92	95	95
Hydrazine/hydrazine sulfate	302-01-2	864.41	69	5	5,168	46	107	30	62	95

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS		ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		30,000	20,000
Benzaldehyde 100-52	-7		101	0			94	93		94
Tetraethyl lead	78-00-2		99	0			93	94		93
1,1-Biphenyl 92-52-	4		98	0			92	95		92
o-Chlorotoluene 95-49-	8		94	0			88	96		88
Carbaryl 63-25-	2	530.98	93	0	3,175	132	87	97	3,262	87
Thiram 137-26	-8		93	0			87	97		87
2,4-Dinitrophenol	51-28-5	860.45	34	9	5,144	49	32	124	55	87
2,4,6-Trinitrotoluene	118-96-7	883.59	51	6	5,283	45	48	120	37	84
Sodium cyanide	143-33-9		90	0			84	98		84
m-Phenylenediamine 108-45	-2		89	0			83	99		83
Resmethrin 10453-86	-8		86	0			80	101		80
Pentafluoroethane 354-33	-6		86	0			80	101		80
Pyridine 110-86	-1		83	0			78	102		78
Toxaphene	8001-35-2	1,086.65	24	9	6,497	21	22	144	55	77
Malathion 121-75	-5		80	0			75	104		75
2,4-Dimethylphenol	105-67-9	685.76	26	8	4,100	92	24	142	49	73
Coke oven emissions	8007-45-2	807.07	77		4,825	67	72	105		72
Amdro 67485-29	-4		77	0			72	105		72
Diuron	330-54-1	579.16	72	0	3,463	121	67	106		67
Ethyl chloride	75-00-3	693.90	64	1	4,149	90	60	110	6	66
N,N-Dimethylaniline 121-69	-7		68	0			64	108		64
Folpet 133-07	-3		68	0			64	108		64
Carbon disulfide	75-15-0	702.55	40	4	4,200	89	37	129	24	62
2,6-Dinitrotoluene	606-20-2	555.20	20	7	3,319	127	19	147	43	61
Ethylene thiourea	96-45-7		65	0			61	109		61
Endrin	72-20-8	1,048.57	58	1	6,269	28	54	116	6	60
Methoxychlor 72-43-	5	994.47	63	0	5,946	39	59	111		59
1,3-Dichlorobenzene 541-73	-1	631.41	62		3,775	99	58	112		58
Trichloroacetic acid	76-03-9		62				58	112		58

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Furfural 98-01-	1		61	0			57	113			57	57
Triethylene glycol monobutyl ether	143-22-6		60				56	114			56	56
Uranium, natural	7440-61-1	833.41	59	0	4,983	58	55	115			5,038	55
Dicamba 1918-00	-9		58	0			54	116			54	54
Decabromodiphenyl ether (DBDPE)	1163-19-5		56	0			52	117			52	52
Diethyl phthalate	84-66-2		56	0			52	117			52	52
p-Nitrophenol	100-02-7	567.79	55		3,395	125	51	118			3,446	51
Bromochloromethane 74-97-	5		55				51	118			51	51
Fluorene 86-73-	7		19	5			18	148	30	62	48	48
Acenaphthene	83-32-9	731.25	37	2	4,372	82	35	131	12	65	4,419	47
Mercuric chloride	7487-94-7	601.45	50	0	3,596	115	47	121			3,643	47
di(2-ethylhexyl)Adipate	103-23-1	540.20	50	0	3,230	129	47	121			3,276	47
Baythroid 68359-37	-5		50	0			47	121			47	47
Benzidine	92-87-5	1,114.24	23	4	6,662	19	22	144	24	63	6,708	46
Dichlorvos	62-73-7	601.64	49	0	3,597	114	46	122	0		3,643	46
Cyanide, free	57-12-5	1,099.48	48	0	6,574	20	45	123	0		6,618	45
Simazine 122-34	-9		46	0			43	124	0		43	43
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine 2691-41	-0		46	0			43	124	0		43	43
Atrazine 1912-24	-9		37	1			35	131	6	66	41	41
Pyrene	129-00-0	577.95	30	2	3,455	124	28	138	12	65	3,496	40
3-Methylphenol 108-39	-4		43	0			40	127			40	40
2-Nitropropane 79-46-	9		43	0			40	127			40	40
Nitric Oxide	10102-43-9		43				40	127			40	40
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6		7	5			7	159	30	62	37	37
Anthracene 120-12	-7		38	0			36	130			36	36
Dimethylamine 124-40	-3		38				36	130			36	36
2-Chlorophenol	95-57-8	599.62	36	0	3,585	117	34	132			3,619	34
Phenanthrene	85-01-8	597.68	36		3,573	118	34	132			3,607	34
Glyphosate 1071-83	-6		33	0			31	135			31	31

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Creosote 8001-58	-9	1,124.32	32		6,722	16	30	136			6,752	30
Fluoranthene 206-44	-0	812.40	32	0	4,857	63	30	136			4,887	30
Hydrogen cyanide	74-90-8	803.08	32	0	4,801	70	30	136			4,831	30
Pendimethalin 40487-42	-1		32	0			30	136			30	30
Diquat 85-00-	7		32	0			30	136			30	30
delta-Hexachlorocyclohexane (delta-HCH)	319-86-8	1,038.27	30		6,208	30	28	138			6,236	28
Acephate 30560-19	-1		30	0			28	138			28	28
Silver cyanide	506-64-9		29	0			27	139			27	27
Hexazinone 51235-04	-2		29	0			27	139			27	27
Prometon 1610-18	-0		28	0			26	140			26	26
Trifluralin 1582-09	-8	770.12	27	0	4,604	77	25	141			4,630	25
Thallium nitrate	10102-45-1		27	0			25	141			25	25
Selenium sulfide	7446-34-6		27	0			25	141			25	25
Cypermethrin 52315-07	-8		26	0			24	142			24	24
Disulfoton 298-04	-4	1,058.85	25	0	6,331	26	23	143			6,354	23
Hexachlorophene 70-30-	4		24	0			22	144			22	22
beta-Chloronaphthalene 91-58-	7		24	0			22	144			22	22
Azobenzene 103-33	-3		17	1			16	150	6	66	22	22
Caprolactam 105-60	-2		23	0			22	144			22	22
Methomyl 16752-77	-5		22	0			21	145			21	21
2,4,5-Trichlorophenol	95-95-4	604.83	21	0	3,616	108	20	146			3,636	20
Maleic anhydride	108-31-6		21	0			20	146			20	20
Bis(2-chloroisopropyl) ether	108-60-1		14	1			13	153	6	66	19	19
Bis(2-chloroethoxy)methane 111-91	-1		14	1			13	153	6	66	19	19
Acetophenone 98-86-	2		14	1			13	153	6	66	19	19
Dacthal 1861-32	-1		20	0			19	147			19	19
Copper cyanide	544-92-3		20	0			19	147			19	19
Acenaphthylene 208-96	-8		20				19	147			19	19
2,4-Dichlorophenol 120-83	-2	616.45		3	3,686	101	0		18	64	3,704	18

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Zinc phosphide	1314-84-7		19	0	0		18	148			18	18
Alachlor 15972-60	-8		19	0	0		18	148			18	18
Aluminum phosphide	20859-73-8		19	0	0		18	148			18	18
Benzo[g,h,i]perylene 191-24	-2		19		0		18	148			18	18
Naled	300-76-5	602.32	18	0	3,601	113	17	149			3,618	17
Dibenzofuran 132-64	-9	689.19	17		4,121	91	16	150			4,136	16
Propargyl alcohol	107-19-7		17	0			16	150			16	16
Tebuthiuron 34014-18	-1		17	0			16	150			16	16
2 (2,4,5-Trichlorophenoxy) propionic acid	93-72-1		17	0			16	150			16	16
2,4,5-Trichlorophenoxyacetic acid	93-76-5		17	0			16	150			16	16
Phosphine	7803-51-2	559.74	16	0	3,347	126	15	151			3,362	15
Benefin 1861-40	-1		16	0			15	151			15	15
Metribuzin 21087-64	-9		16	0			15	151			15	15
4-Aminopyridine 504-24	-5		16				15	151			15	15
Methacrylonitrile 126-98	-7		2	2			2	164	12	65	14	14
Bayleton 43121-43	-3		15	0			14	152			14	14
N-Nitrosodiethylamine 55-18-	5		1	2			1	165	12	65	13	13
1-Chlorobutane 109-69	-3		14	0			13	153			13	13
3,3-Dimethylbenzidine 119-93	-7		14	0			13	153			13	13
Propachlor 1918-16	-7		14	0			13	153			13	13
Oxadiazon 19666-30	-9		14	0			13	153			13	13
Pentabromodiphenyl ether	32534-81-9		14	0			13	153			13	13
Iprodione 36734-19	-7		14	0			13	153			13	13
Potassium silver cyanide	506-61-6		14	0			13	153			13	13
Pydrin 51630-58	-1		14	0			13	153			13	13
Dalapon (sodium salt)	75-99-0		14	0			13	153			13	13
Oryzalin 19044-88	-3		13	0			12	154			12	12
Dinoseb 88-85-	7		13	0			12	154			12	12
4-(2,4-Dichlorophenoxy)butyric acid	94-82-6		13	0			12	154			12	12

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Chlorobenzilate 510-15	-6		12	0			11	155			11	11
2,6-Dimethylphenol 576-26	-1		12	0			11	155			11	11
Biphenthrin 82657-04	-3		12	0			11	155			11	11
Pentachloronitrobenzene 82-68-	8		12	0			11	155			11	11
Ethyl carbamate	51-79-6		12				11	155			11	11
Cacodylic acid	75-60-5	922.06	11	0	5,513	41	10	156			5,523	10
Dimethoate	60-51-5	602.61	11	0	3,603	111	10	156			3,613	10
Arsine	7784-42-1	602.42	11		3,602	112	10	156			3,612	10
Quinone 106-51	-4		11				10	156			10	10
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		10	0			9	157			9	9
Captan 133-06	-2		10	0			9	157			9	9
Picloram 1918-02	-1		10	0			9	157			9	9
Metalaxyl 57837-19	-1		10	0			9	157			9	9
2-Chloroacetophenone 532-27	-4		10				9	157			9	9
Metolachlor 51218-45	-2		9	0			8	158			8	8
Zinc cyanide	557-21-1		9	0			8	158			8	8
Aluminum sulfamate	7773-06-0		9	0			8	158			8	8
Warfarin 81-81-	2		9	0			8	158			8	8
N-Nitroso-di-n-butylamine 924-16	-3		2	1			2	164	6	66	8	8
Parathion 56-38-	2	784.14	8	0	4,688	73	7	159			4,696	7
Chlorpropham 101-21	-3		8	0			7	159			7	7
Endothall 145-73	-3		8	0			7	159			7	7
Paraquat 1910-42	-5		8	0			7	159			7	7
Pronamide 23950-58	-5		8	0			7	159			7	7
Fluridone 59756-60	-4		8	0			7	159			7	7
2,4-Diaminotoluene 95-80-	7		8	0			7	159			7	7
Tetrachlorovinphos 961-11	-5		8	0			7	159			7	7
N-Nitroso-N-methylethylamine 10595-95	-6		1	1			1	165	6	66	7	7
1,3,5-Trinitrobenzene 99-35-	4	820.17	7	0	4,904	61	7	159			4,910	7

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Methyl parathion	298-00-0	545.83	7	0	3,263	128	7	159			3,270	7
Benzyl chloride	100-44-7		7	0			7	159			7	7
Sodium diethyldithiocarbamate	148-18-5		7	0			7	159			7	7
Vernam 1929-77	-7		7	0			7	159			7	7
Strychnine 57-24-	9		7	0			7	159			7	7
Paclobutrazol 76738-62	-0		7	0			7	159			7	7
Ethion 563-12	-2	834.03	6	0	4,986	56	6	160			4,992	6
Maneb 12427-38	-2		6	0			6	160			6	6
Chloramben 133-90	-4		6	0			6	160			6	6
Merphos 150-50	-5		6	0			6	160			6	6
Benomyl 17804-35	-2		6	0			6	160			6	6
Fenamiphos 22224-92	-6		6	0			6	160			6	6
Cyanogen 460-19	-5		6	0			6	160			6	6
2,3,4,6-Tetrachlorophenol 58-90-	2		6	0			6	160			6	6
Tralomethrin 66841-25	-6		6	0			6	160			6	6
Ally 74223-64	-6		6	0			6	160			6	6
Ametryn 834-12	-8		6	0			6	160			6	6
Rotenone 83-79-	4		6	0			6	160			6	6
Thallic oxide	1314-32-5		6				6	160			6	6
Propylene glycol monoethyl ether	52125-53-8		6				6	160			6	6
Barium cyanide	542-62-1		6				6	160			6	6
Butylate	2008-41-5	578.43	5	0	3,458	122	5	161			3,463	5
Molinate 2212-67	-1		5	0			5	161			5	5
Oxamyl 23135-22	-0		5	0			5	161			5	5
Carboxin 5234-68	-4		5	0			5	161			5	5
Nitroguanidine 556-88	-7		5	0			5	161			5	5
Phosmet 732-11	-6		5	0			5	161			5	5
Ethyleneimine 151-56	-4		5				5	161			5	5
technical Hexachlorocyclohexane (t-HCH)	608-73-1	774.91	4	0	4,633	76	4	162			4,637	4

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Pentachlorobenzene 608-93	-5	753.58	4	0	4,505	78	4	162			4,509	4
Avermectin B1	65195-55-3		4	0	0			162			4	4
Prometryn	7287-19-6		4	0	0			162			4	4
S-Ethyl dipropylthiocarbamate (EPTC)	759-94-4		4	0	0		4	162			4	4
Dimethyl sulfate	77-78-1		4	0	0			162			4	4
Isoxaben	82558-50-7		4	0	0			162			4	4
1,2,4,5-Tetrachlorobenzene	95-94-3		4	0	0			162			4	4
Methyl chlorocarbonate	79-22-1		4		0		4	162			4	4
Allyl chloride	107-05-1		4	0			4	162			4	4
N-Nitrosodiethanolamine 1116-54	-7		4	0			4	162			4	4
Adiponitrile 111-69	-3		4	0			4	162			4	4
Carbofuran 1563-66	-2		4	0			4	162			4	4
Cyanazine 21725-46	-2		4	0			4	162			4	4
Tetraethyldithiopyrophosphate 3689-24	-5		4	0			4	162			4	4
Oxyfluorfen 42874-03	-3		4	0			4	162			4	4
Vinclozolin 50471-44	-8		4	0			4	162			4	4
Thallium acetate	563-68-8		4	0			4	162			4	4
Propiconazole 60207-90	-1		4	0			4	162			4	4
Carbonyl sulfide	463-58-1		4				4	162			4	4
Endosulfan 115-29	-7	1,004.65	3	0	6,007	38	3	163			6,009	3
Aldicarb 116-06	-3		3	0			3	163			3	3
Zineb 12122-67	-7		3	0			3	163			3	3
Propazine 139-40	-2		3	0			3	163			3	3
Aldicarb sulfone	1646-88-4		3	0			3	163			3	3
Bromoxynil octanoate	1689-99-2		3	0			3	163			3	3
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		3	0			3	163			3	3
Dodine 2439-10	-3		3	0			3	163			3	3
Norflurazon 27314-13	-2		3	0			3	163			3	3
Amitraz 33089-61	-1		3	0			3	163			3	3

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Terbacil 5902-51	-2		3	0			3	163			3	3
Sethoxydim 74051-80	-2		3	0			3	163			3	3
Terbutryn 886-50	-0		3	0			3	163			3	3
Fonofos 944-22	-9		3	0			3	163			3	3
3,4-Dimethylphenol 95-65-	8		3	0			3	163			3	3
Diphenamid 957-51	-7		3	0			3	163			3	3
Benzotrichloride 98-07-	7		3	0			3	163			3	3
Nonabromodiphenyl ether	63936-56-1		3				3	163			3	3
Merphos oxide	78-48-8	797.88	2	0	4,770	72	2	164			4,772	2
Nitrate	14797-55-8	610.66	2	0	3,651	106	2	164			3,653	2
1,4-Dibromobenzene 106-37	-6		2	0			2	164			2	2
Dimethyl terephthalate (DMT)	120-61-6		2	0			2	164			2	2
Aramite 140-57	-8		2	0			2	164			2	2
Bidrin 141-66	-2		2	0			2	164			2	2
Napropamide 15299-99	-7		2	0			2	164			2	2
Octabromodiphenyl ether	32536-52-0		2	0			2	164			2	2
Calcium cyanide	592-01-8		2	0			2	164			2	2
1,2,4-Tribromobenzene 615-54	-3		2	0			2	164			2	2
Acifluorfen, sodium	62476-59-9		2	0			2	164			2	2
Sodium fluoroacetate	62-74-8		2	0			2	164			2	2
Chlorsulfuron 64902-72	-3		2	0			2	164			2	2
Flutolanil 66332-96	-5		2	0			2	164			2	2
Fluvalinate 69409-94	-5		2	0			2	164			2	2
Imazaquin 81335-37	-7		2	0			2	164			2	2
Nitrapyrin 1929-82	-4		2				2	164			2	2
p,p'-Dibromodiphenyl ether	2050-47-7		2				2	164			2	2
1,2-Diphenylhydrazine 122-66	-7	713.90	1	0	4,268	84	1	165			4,269	1
Chlordane (technical)	12789-03-6	602.62	1	0	3,603	110	1	165			3,604	1
Allyl alcohol	107-18-6		1	0			1	165			1	1

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Furan 110-00	-9		1	0			1	165			1	1
Maleic hydrazide	123-33-1		1	0			1	165			1	1
Fluometuron 2164-17	-2		1	0			1	165			1	1
Triallate 2303-17	-5		1	0			1	165			1	1
Thiobencarb 28249-77	-6		1	0			1	165			1	1
Linuron 330-55	-2		1	0			1	165			1	1
Isopropalin 33820-53	-0		1	0			1	165			1	1
Thallium carbonate	6533-73-9		1	0			1	165			1	1
Thallium (I) sulfate	7446-18-6		1	0			1	165			1	1
Thallium chloride	7791-12-0		1	0			1	165			1	1
Systhane 88671-89	-0		1	0			1	165			1	1
N-Nitrosopyrrolidine 930-55	-2		1	0			1	165			1	1
t-Butyl chloride	507-20-0		1				1	165			1	1
Diethyl sulfate	64-67-5		1				1	165			1	1
Bromotrichloromethane 75-62-	7		1				1	165			1	1
Nitrite 14797-65	-0	612.64		0	3,663	104					3,663	0
Formaldehyde 50-00-	0	599.64		0	3,585	116					3,585	0
Radium 226,228	7440-14-4	828.07			4,951	60					4,951	
Fluorine, soluble fluoride	7782-41-4	613.28		0	3,667	103					3,667	
Express	101200-48-00											
Methamidophos 10265-92	-6			0								
Monchloramine 10599-90	-3			0								
Chloromethyl methyl ether	107-30-2			0								
Nickel subsulfide	12035-72-2			0								
Propham 122-42	-9			0								
4,6-Dinitro-o-cyclohexyl phenol	131-89-5			0								
Quinalphos 13593-03	-8			0								
Phenmedipham 13684-63	-4			0								
Diisopropyl methylphosphonate	1445-75-6			0								

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Alar 1596-84	-5			0								
Ethephon 16672-87	-0			0								
Bromoxynil 1689-84	-5			0								
Isopropyl methyl phosphonic acid	1832-54-8			0								
Propargite 2312-35	-8			0								
Thiophanate-methyl 23564-05	-8			0								
Mirex 2385-85	-5			0								
Captafol 2425-06	-1			0								
Mepiquat chloride	24307-26-4			0								
Pirimiphos-methyl 29232-93	-7			0								
Asulam 3337-71	-1			0								
Acetochlor 34256-82	-1			0								
Diflufenzuron 35367-38	-5			0								
Imazalil 35554-44	-0			0								
Fosetyl-al 39148-24	-8			0								
Danitol 39515-41	-8			0								
Difenzoquat 43222-48	-6			0								
Chlorine cyanide	506-77-4			0								
Bis(chloromethyl) ether	542-88-1			0								
Carbosulfan 55285-14	-8			0								
Dimethipin 55290-64	-7			0								
Tridiphane 58138-08	-2			0								
Vinyl bromide	593-60-2			0								
1,1,2-Trichloropropane 598-77	-6			0								
Furmecyclox 60568-05	-0			0								
Selenourea 630-10	-4			0								
Cyromazine 66215-27	-8			0								
Prochloraz 67747-09	-5			0								
Cyhalothrin/karate 68085-85	-8			0								

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Haloxypop-methyl 69806-40	-2			0								
Propanil 709-98	-8			0								
Fomasafen 72178-02	-0			0								
Apollo 74115-24	-5			0								
Glycidaldehyde 765-34	-4			0								
Assure 76578-14	-8			0								
Glufosinate-ammonium 77182-82	-2			0								
Lactofen 77501-63	-4			0								
Savey 78587-05	-0			0								
Harmony 79277-27	-3			0								
Demeton 8065-48	-3			0								
Pursuit 81335-77	-5			0								
Triasulfuron 82097-50	-5			0								
Londax 83055-99	-6			0								
Ethylphthalyl ethylglycolate (EPEG)	84-72-0			0								
Phthalic anhydride	85-44-9			0								
Nustar 85509-19	-9			0								
Hexabromobenzene 87-82-	1			0								
Chlorimuron-ethyl 90982-32	-4			0								
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5			0								
Methidathion 950-37	-8			0								
p-Chlorophenyl methyl sulfone	98-57-7											
Thallium selenite	12039-52-0											
p-Chlorophenyl methyl sulfide	123-09-1											
Nickel carbonyl	13463-39-3											
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	19408-74-3											
Phosolone 2310-17	-0											
Pentachlorocyclopentadiene 25329-35	-5											
Diazomethane 334-88	-3											

TABLE A-7c. IRIS Chemicals of Interest Ranked by the Sum of Their HMIRS and ERPIMS Scores (Bold Font) (see text Appendix A-1, Section 4.2 for details) (Cont.)

CHEMICAL NAME	CASRN	ATSDR Total Points	HMIRS Product Identity Entries	ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs*	ATSDR HMIRS				ERPIMS Soil Sites + Groundwater Sites with Concentrations > RSLs		ATSDR HMIRS ERPIMS/ RSL Combined Score	HMIRS ERPIMS/ RSL Combined Score
					Score	Rank	Score	Rank	Score	Rank		
Maximum Possible Number or Score		1,800.00	151,413	N/A	10,000		10,000		10,000		30,000	20,000
Hexabromodiphenyl ether	36483-60-0											
Tetrabromodiphenyl ether	40088-47-9											
Tribromodiphenyl ether	49690-94-0											
beta-Propiolactone 57-57-	8											
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	57653-85-7											
Dibromodichloromethane 594-18	-3											
epsilon-Hexachlorocyclohexane (epsilon-HC)	6108-10-7											
Methyl isocyanate	624-83-9											
Propyleneimine 75-55-	8											
Trichlorocyclopentadiene 77323-84	-3											
ortho-Anisidine 90-04-	0											
p-Chlorophenyl methyl sulfoxide	934-73-6											

* 0 = no RSL exceedances; blank = no RSL

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